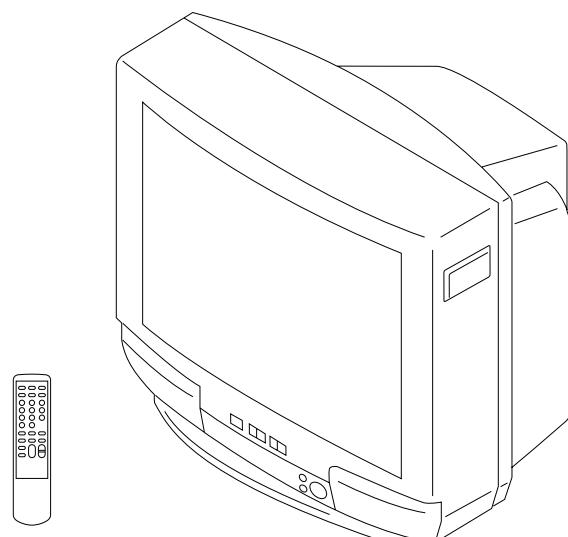


SERVICE MANUAL

BG-1S CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
<i>KV-T21MN8</i>	<i>RM-870</i>	<i>Hong Kong</i>	<i>SCC-J16G-A</i>				
<i>KV-T21MN81</i>	<i>RM-870</i>	<i>GE</i>	<i>SCC-J40V-A</i>				



TRINITRON® COLOR TV
SONY®

SPECIFICATIONS

		Note
Power requirements	110-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	B/G, I, D/K, M	
Color system	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58	
Stereo system	Nicam Stereo B/G, I; A2 Stereo (German) B/G	
Teletext language	English, German, Swedish, Italian, French, Spanish	KV-T21MN81 only
Channel coverage		
B/G	VHF: E2 to E12 / UHF: E21 to E69 / CATV: S01 to S03, S1 to S41	
I	UHF: B21 to B68 / CATV: S01 to S03, S1 to S41	
D/K	VHF: C1 to C12, R1 to R12 / UHF: C13 to C57, R21 to R60 / CATV: S01 to S03, S1 to S41, Z1 to Z39	
M	VHF: A2 to A13 / UHF: A14 to A79 / CATV: A-8 to A-2, A to W+ 4, W+ 6 to W+ 84	
Audio output (speaker)	3W × 2	
Inputs	Antenna: 75 ohms VIDEO IN jacks: phono jacks Video: 1 Vp-p, 75 ohms Audio: 500 mVrms, high impedance	
Outputs	Headphone jack: minijack MONITOR OUT jacks: phono jacks Video: 1 Vp-p, 75 ohms Audio: 500 mVrms	
Picture tube	21 in.	
Tube size (cm)	54	Measured diagonally
Screen size (cm)	51	Measured diagonally
Dimensions (w/h/d, mm)	527 × 464 × 471	
Mass (kg)	22	

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

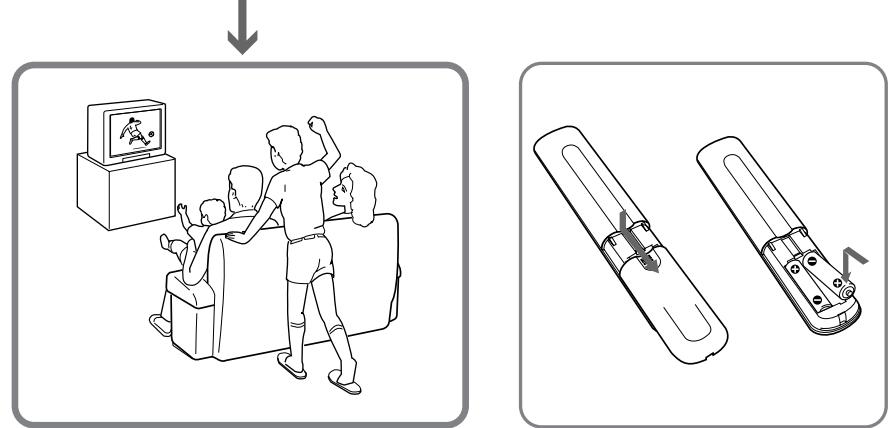
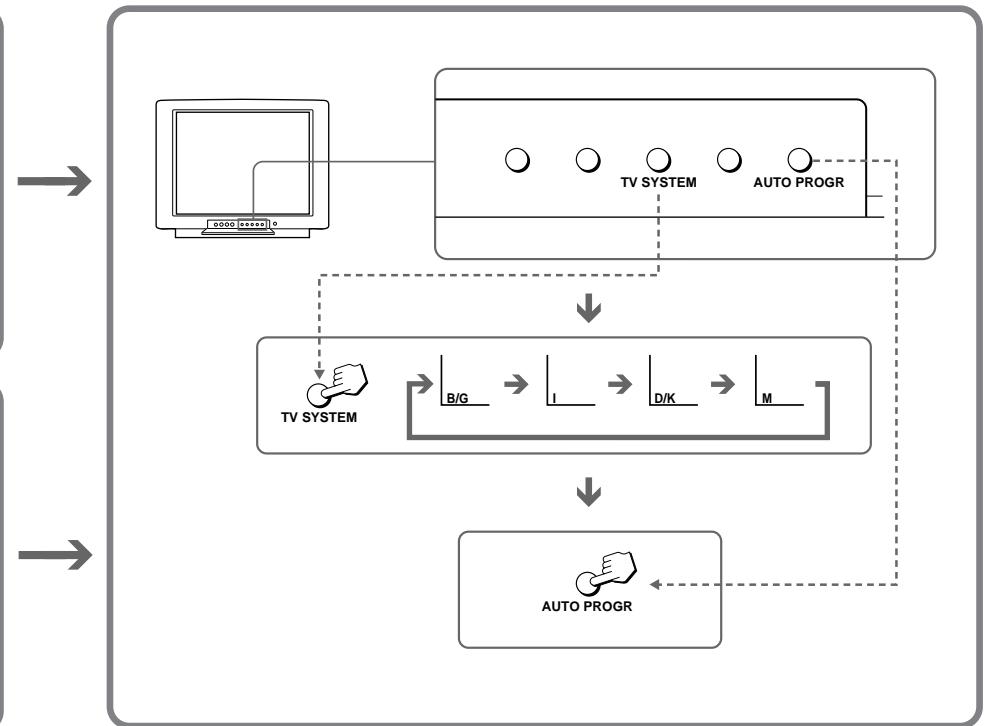
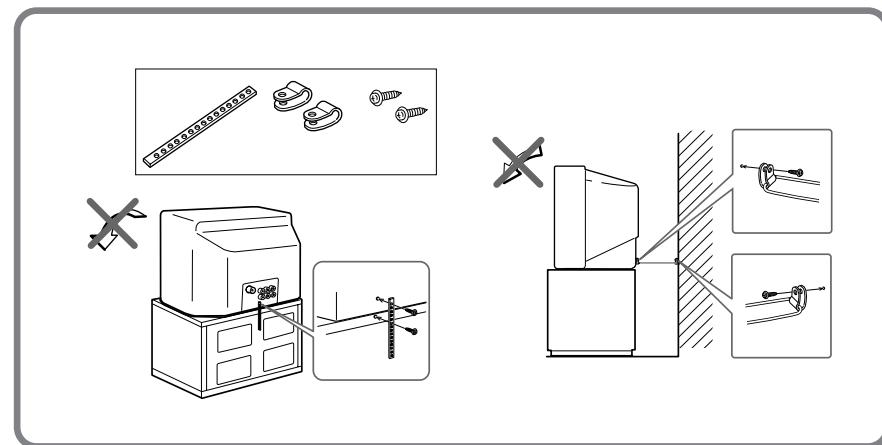
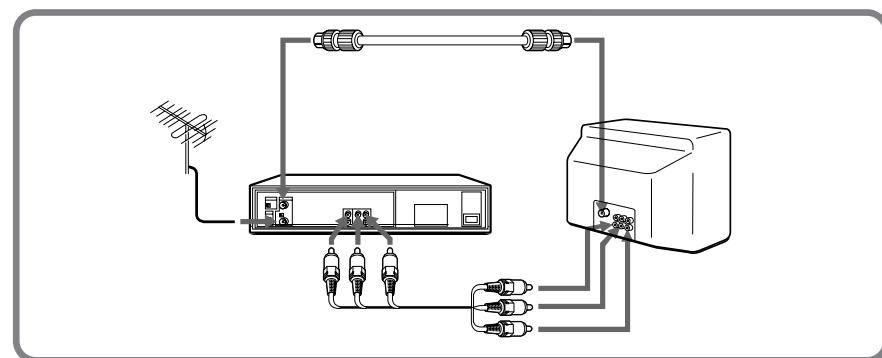
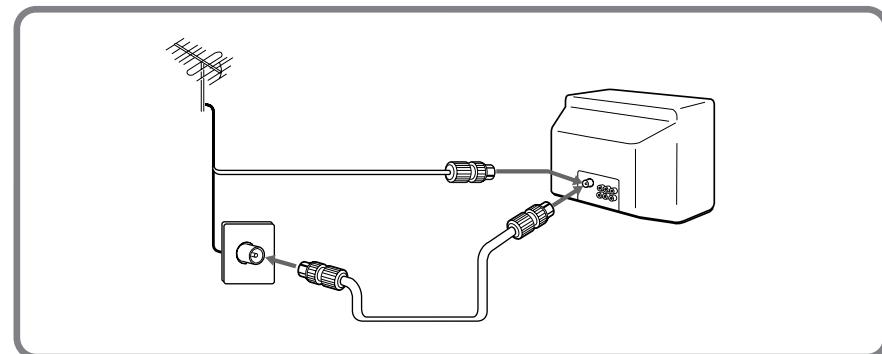
COMPONENTS IDENTIFIED BY SHADING AND MARK \triangle ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SECTION 1 GENERAL

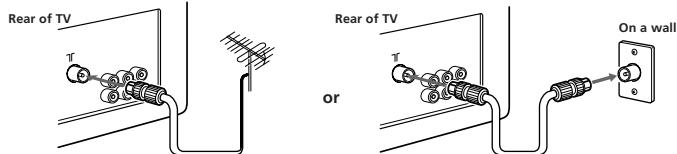
The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in this manual.



Connections

Connecting a VHF antenna or a combination VHF/UHF antenna — 75-ohm coaxial cable (round)

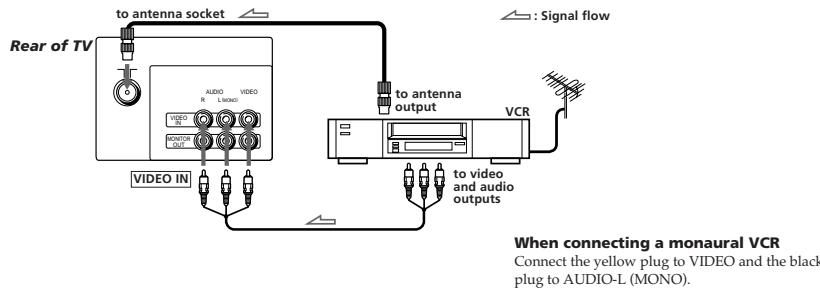
Attach an optional IEC antenna connector to the 75-ohm coaxial cable. Plug the connector into the **T** (antenna) socket at the rear of the TV.



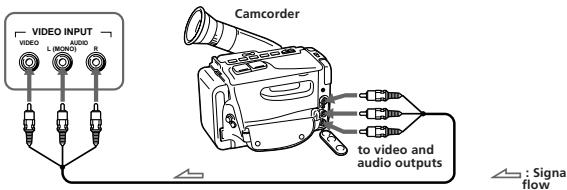
Connecting optional equipment

You can connect optional audio/video equipment to your TV such as a VCR, multi disc player, camcorder, video game or stereo system.

Connecting video equipment using video input jacks



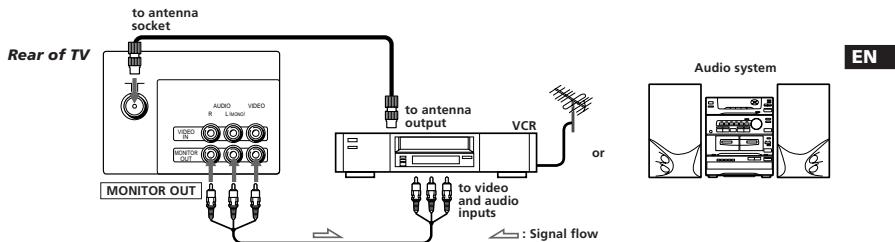
Front of TV



When using the video input jacks

Do not connect video equipment to the video input jacks at the front and the rear of your TV simultaneously; otherwise the picture will not be displayed properly on the screen.

Connecting audio/video equipment using MONITOR OUT jacks



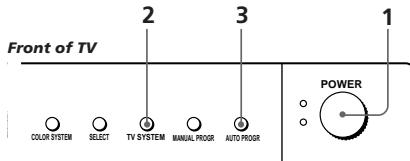
When recording through the MONITOR OUT jacks

If you change the channel or video input while recording with a VCR, the channel or video input you are recording also will be changed.

Presetting channels

Presetting channels automatically

You can preset up to 80 TV channels in numerical sequence from program position 1.

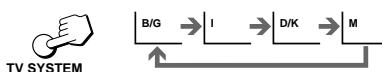


1 Press POWER.



When the TV is in standby mode after pressing POWER, press POWER on the remote commander.

2 Press TV SYSTEM until your local TV system appears.



3 Press AUTO PROGR.



To start presetting channels automatically from the specified program position

- 1 Press MANUAL PROGR.
- 2 Press TV SYSTEM to select your local TV system.
- 3 Press PROGR +/- to select the program position.
- 4 Press AUTO PROGR.

Presetting channels manually

To change the channel for a particular program position or to receive a channel with a weak signal, preset the channel manually.

1 Press MANUAL PROGR.

2 Press PROGR +/- until the required program position appears on the screen.

3 Press TV SYSTEM until your local TV system appears.

4 Press VOLUME +/- on the TV until the required channel picture appears on the screen.

5 Press MANUAL PROGR.

If the TV system is not properly selected

The color of the picture may be poor and/or the sound may be noisy. In this case, select the appropriate TV system.

- 1 Press PROGR +/- to select the program position.
- 2 Press TV SYSTEM until the picture and sound become normal.

Notes

- If you do not know your local TV system, consult your nearest authorized service center or dealer.
- The setting of the TV SYSTEM is memorized for each program position.

Disabling program positions

By disabling unused or unwanted program positions, you can skip those positions when you press PROGR +/-.

1 Press PROGR +/- until the unused or unwanted program position appears on the screen.

2 Press MANUAL PROGR.

3 Press PIC MODE on the remote commander.

4 Press MANUAL PROGR.

To cancel the skip setting

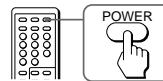
Preset the channel manually or automatically again.

Operations

Watching the TV

Switching off the TV

To switch off the TV temporarily, press POWER on the remote commander.



To switch off the TV completely, press POWER on the TV.

If the power on the TV is turned off in standby mode, the STANDBY indicator may remain alight for a while.



1 Press POWER to turn the TV on.

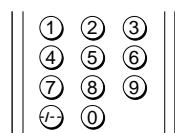


When the TV is in standby mode after pressing POWER, press POWER on the remote commander.

2 Select the TV channel you want to watch.

To select a channel directly

Press a number button.



To select a two-digit channel, press “-/-” before the number buttons.

For example: to select channel 25, press “-/-” and then “2” and “5.”



To scan through channels

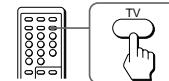
Press PROGR +/- until the channel you want appears.



3 Press VOL +/- to adjust the volume.

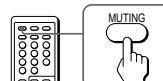


To watch TV, press TV.



Muting the sound

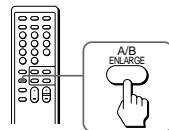
Press MUTING.



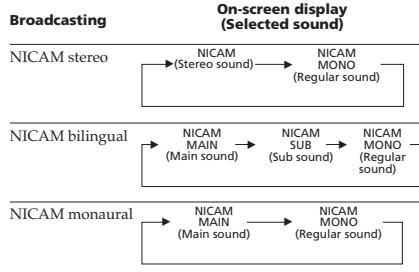
Selecting a stereo or bilingual program

Press A/B/ENLARGE repeatedly until you receive the sound you want.

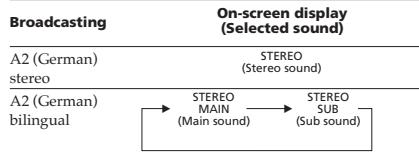
The on-screen display changes corresponding to the selected sound and the WAKE UP/STEREO indicator also lights up.



When receiving a NICAM program



When receiving a A2 (German) program



Receiving area for NICAM and A2 (German) programs

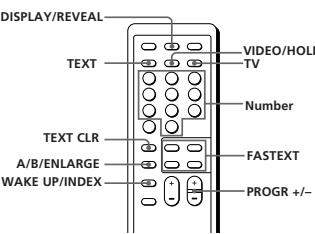
System	Receiving area
NICAM	Hong Kong, Singapore, New Zealand, etc.
A2 (German)	Australia, Malaysia, Thailand, etc.

Notes

- If the signal is very weak, the sound becomes monaural automatically.
- If the stereo sound is noisy, select "regular sound." The sound becomes monaural, however, the noise will be reduced.

Viewing Teletext

■ KV-T21MN81 only



Displaying Teletext

- Select a TV channel which carries the Teletext broadcast you want to watch.
- Press TEXT to display the Teletext. A Teletext page is displayed (normally the index page). If there is no Teletext broadcast, 100 is displayed at the top left corner of the screen.

To cancel the Teletext display, press TV.

Superimposing a Teletext page on the TV picture

Press TEXT. Each time you press TEXT, the screen changes as follows:



Checking the contents of a Teletext service (INDEX)

Press WAKE UP/INDEX to display an overview of the Teletext contents and page numbers.

Using FASTEXT

This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT page is broadcasted, a color-coded menu appears at the bottom of the screen. The colors of the menu correspond to the RED, GREEN, YELLOW, and CYAN buttons on the remote commander.

Press the color button which corresponds to the color-coded menu.

The page is displayed after a few seconds.

Selecting a Teletext page

To input the three-digit page number of the Teletext page, press the number buttons. If you make a mistake, key in the correct page number again.

To access the next or previous page, press PROGR +/−.

Holding a Teletext page (subpage)

Press VIDEO/HOLD. The HOLD symbol "█" is displayed at the top left corner of the screen.

To resume normal Teletext operation, press VIDEO/HOLD again or TEXT.

Revealing concealed information

Press DISPLAY/REVEAL. To conceal the information, press DISPLAY/REVEAL again.

Enlarging the Teletext display

Press A/B/ENLARGE. Each time you press A/B/ENLARGE, the Teletext display changes as follows:



Waiting for a Teletext page while watching a TV program (TEXT CLEAR)

- Key in the page number of the Teletext that you want to refer, then press TEXT CLR.
- When the page number is displayed on the screen, press TEXT to switch the Teletext on.

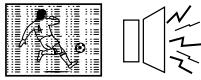
Additional Information

Troubleshooting

If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.

If the problem persists, contact your nearest authorized service center or dealer.

Snowy picture Noisy sound



- Check the antenna.
- Check the antenna connection on the TV and on the wall.
- Check the TV SYSTEM setting.

Dotted lines or stripes



- This may be caused by local interference (e.g. cars, neon signs, hair dryers, etc.). Adjust the antenna for minimum interference.

Double images or "ghosts"



- This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.

Notes

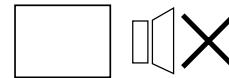
- When you switch on the TV, you may hear the "boon" sound that is caused by the demagnetization of the TV. This does not indicate a malfunction.
- The picture color may become abnormal if you change the direction of your TV. To obtain the normal picture color, press POWER on the TV to switch off the TV for five minutes and then switch it on again.
- Design and specifications are subject to change without notice.

Good picture Noisy sound



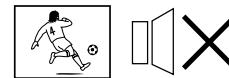
- Check the TV SYSTEM setting.

No picture No sound



- Press POWER.
- Check the antenna connection.
- Check the VCR connections.
- Check the power cord connection.
- Check the standby mode.

Good picture No sound



- Press VOLUME +.
- Press MUTING.
- Press A/B/ENLARGE.

No color



- Adjust the COLOR level in the on-screen display.
- Check the COLOR SYSTEM setting.

TV cabinet creaks

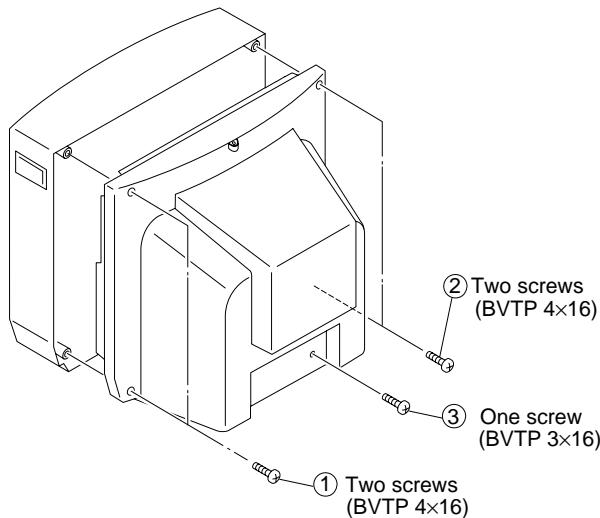
- Even if the picture or the sound is normal, changes in the room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.

WARNING

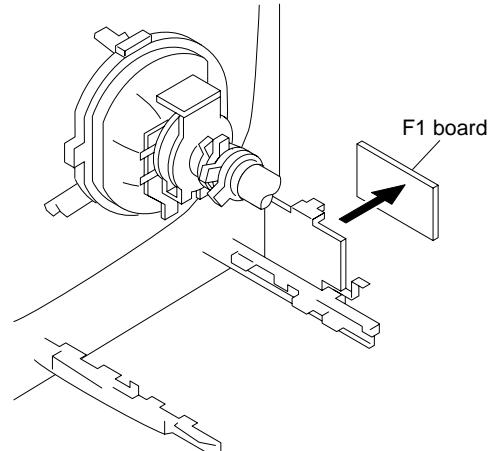
Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

SECTION 2 DISASSEMBLY

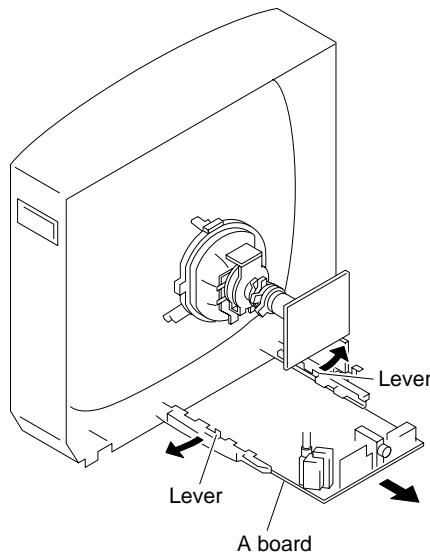
2-1. REAR COVER REMOVAL



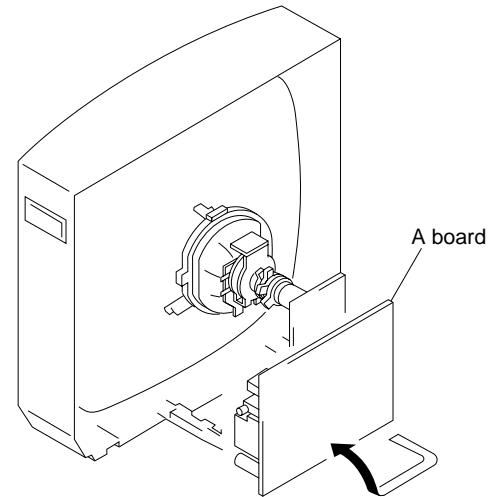
2-3. F1 BOARD REMOVAL (EXCEPT FOR KV-T21MN81)



2-2. A BOARD REMOVAL



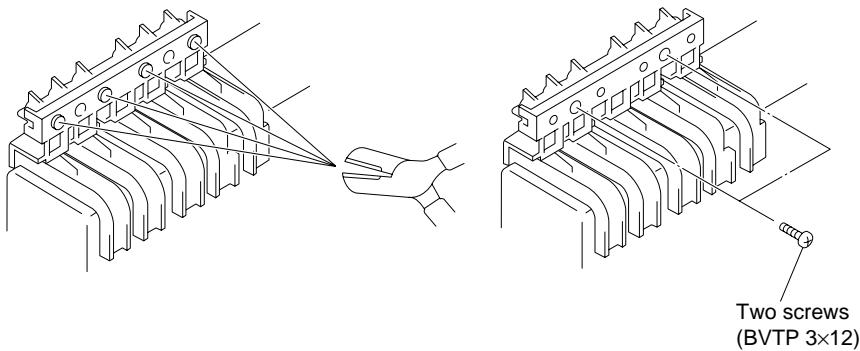
2-4. SERVICE POSITION



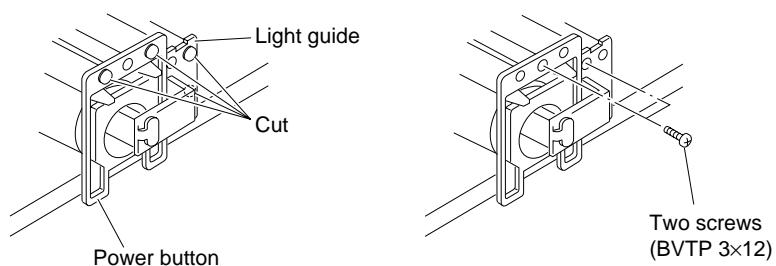
2-5. REPLACEMENT OF PARTS

For replacement of the Multi Button, Power Button and Light Guide, cut the welded portions from them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

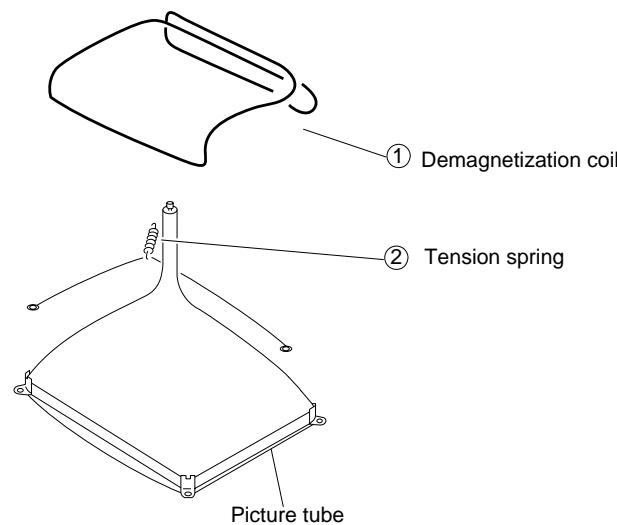
2-5-1. REPLACEMENT OF MULTI BUTTON



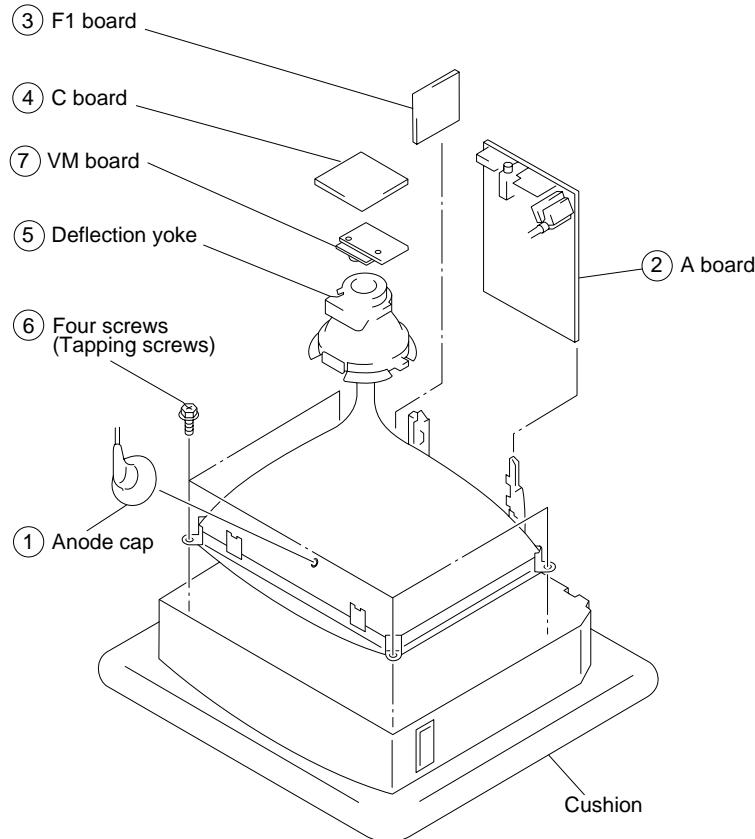
2-5-2. REPLACEMENT OF POWER BUTTON AND LIGHT GUIDE



2-6. DEMAGNETIZATION COIL REMOVAL



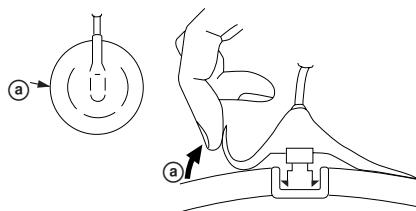
2-7. PICTURE TUBE REMOVAL



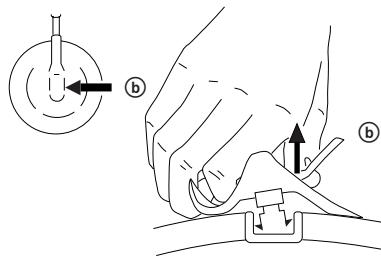
• REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

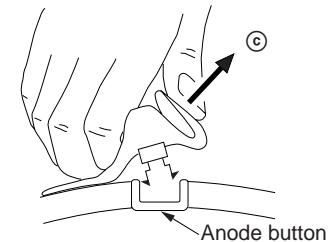
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ①.



② Using a thumb press down then pull up the rubber cap firmly in the direction indicated by the arrow ②.

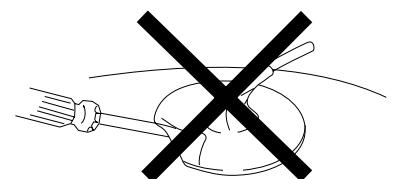
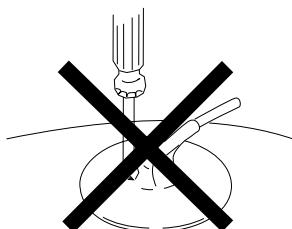


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ③.

• HOW TO HANDLE AN ANODE-CAP

- ① Do not damage the surface of anode-caps with sharp shaped objects.
- ② Do not press the rubber too hard so as not to damage the inside of anode-caps. A metal fitting called the shatter-hook terminal is built into the rubber.
- ③ Do not turn the foot of rubber over too hard.

The shatter-hook terminal will stick out or damage the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

PICTURE control normal
BRIGHTNESS control normal

Perform the adjustments in the following order :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the power and degauss with the degausser.

3-1. BEAM LANDING

1. Input a white signal with the pattern generator.
Contrast } normal
Brightness
2. Position neck assy as shown in Figure 3-1.
3. Set the pattern generator raster signal to a green raster.
4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
(See Figures 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 3-1.)
6. Switch the raster signal to blue, then to red and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screw.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
(See Figure 3-4.)

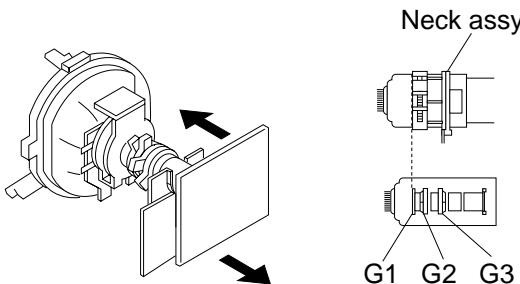


Fig. 3-1

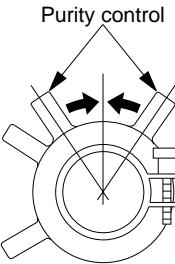


Fig. 3-2

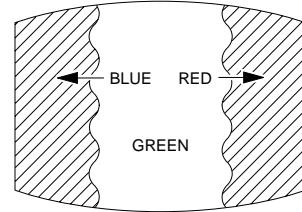


Fig. 3-3

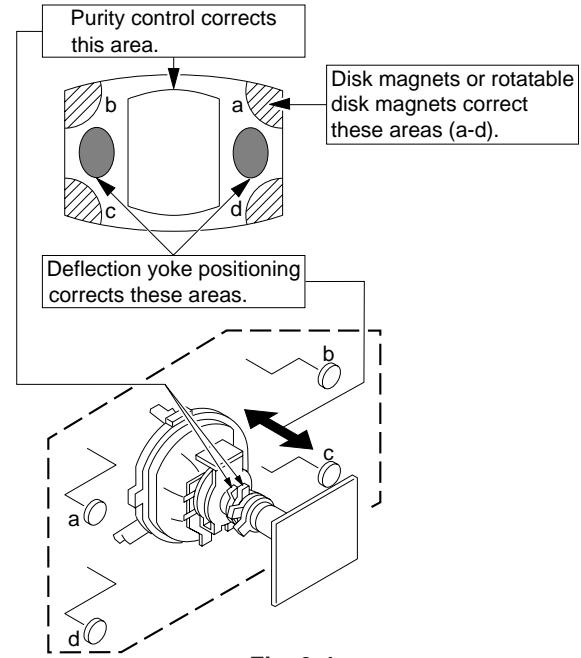


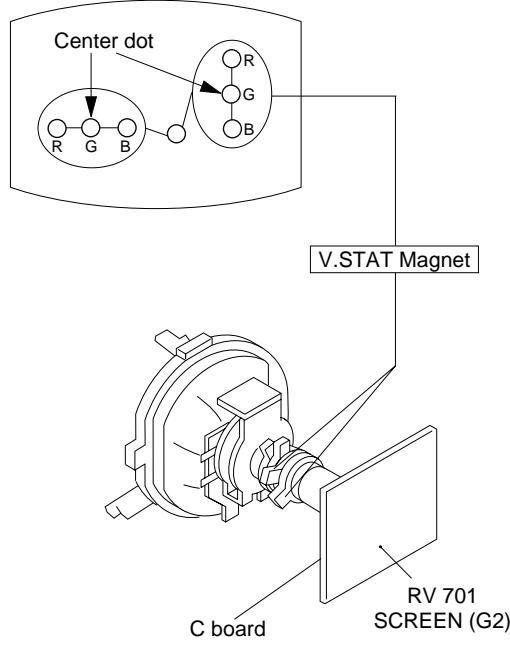
Fig. 3-4

3-2. CONVERGENCE

Preparation :

- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

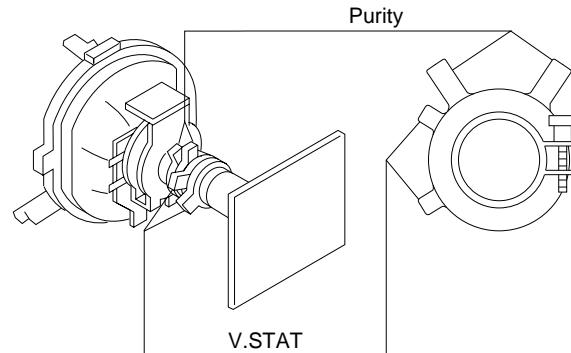
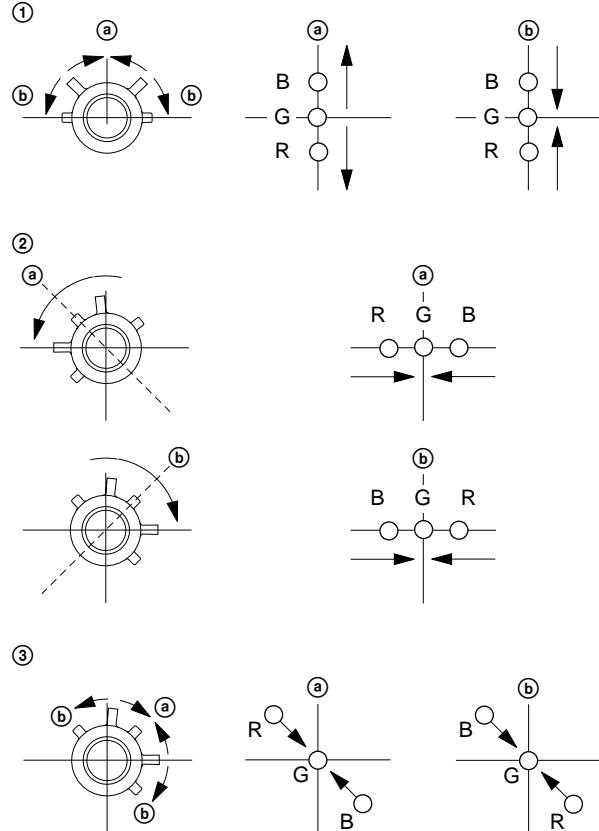
(1) Horizontal and Vertical Static Convergence



1. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving horizontally), adjust the H.STAT VR magnet so that the red, green and blue dots are on top of each other at the center of the screen.

• Operation of the V.STAT magnet.

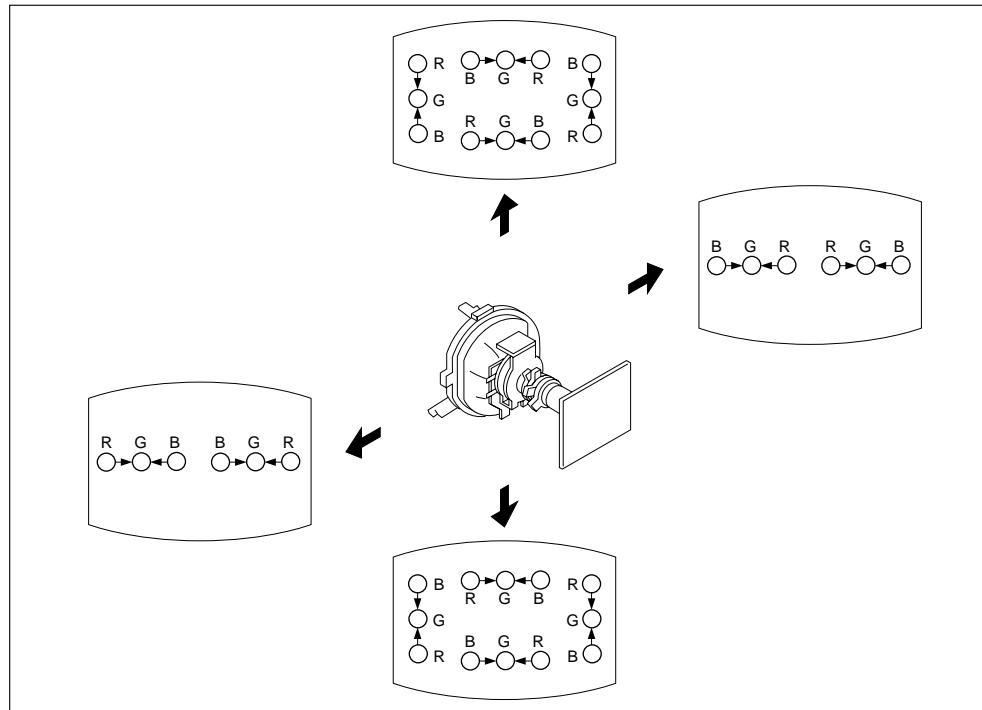
If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green and blue dots move as shown below.



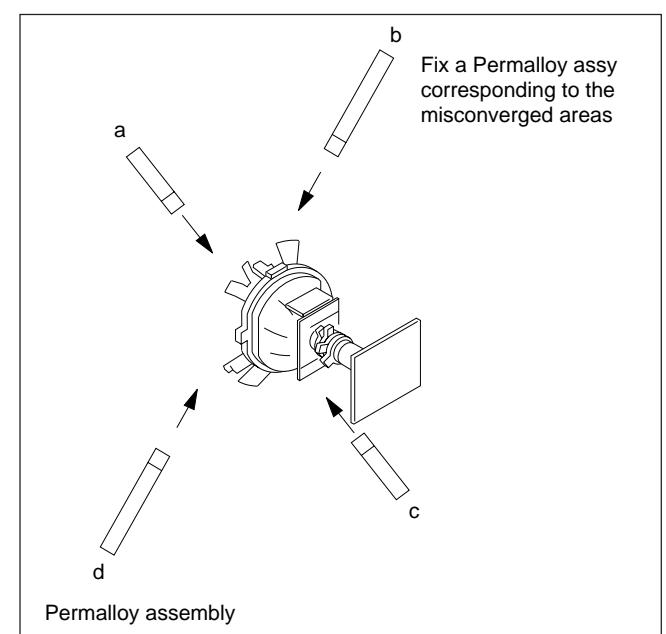
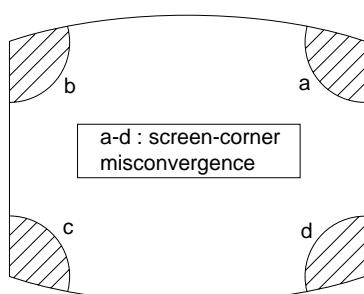
(2) Dynamic Convergence Adjustment

Preparation :

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.
- 3. Move the deflection yoke as shown in the figure below and optimize the convergence.
- 4. Tighten the deflection yoke screws.
- 5. Install the deflection yoke spacer.

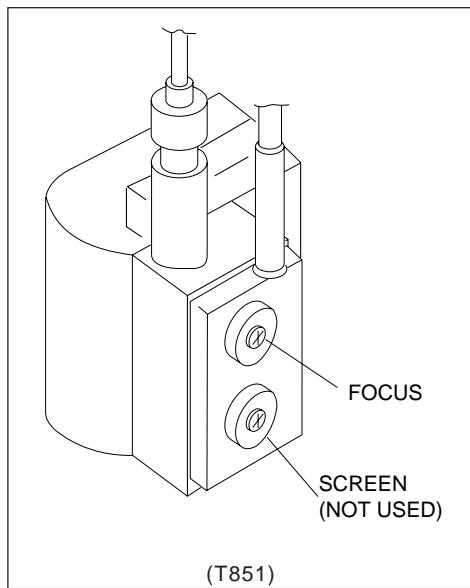


(3) Screen-corner Convergence



3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for the best focus.



a. AN ITEM OF ADJUSTMENT

Item number	Adjustment item	Initial DATA	Note
09	RDR	28	WHITE POINT R
0A	GDR	20	WHITE POINT G
0B	BDR	20	WHITE POINT B

b. METHOD OF CANCELLATION FROM SERVICE MODE

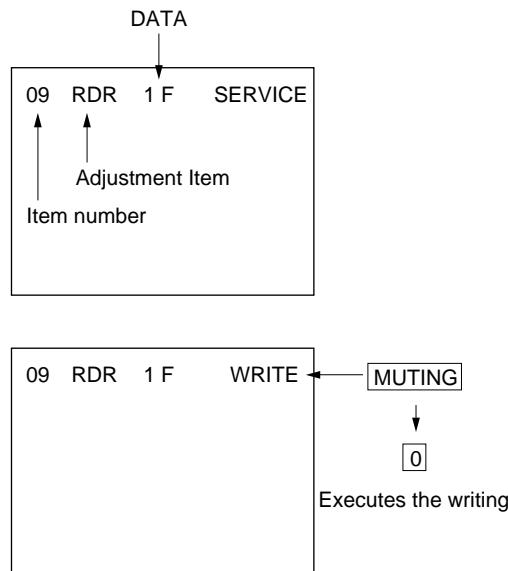
Set the standby condition (Press **POWER** button on the commander) and then press **POWER** button again, hereupon it becomes TV mode.

c. METHOD OF WRITE FOR MEMORY

- 1) Set to Service Mode.
- 2) Press **1** (UP) and **4** (DOWN) to select an item of adjustments.
- 3) Press **MUTING** button and it will indicate WRITE on screen.
- 4) Press **0** button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

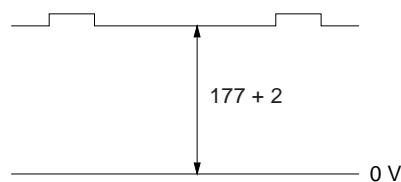
- 1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again to confirm adjustments were made.



3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT (RV701)

- 1) Set the PICTURE and BRIGHTNESS to normal.
- 2) Put to VIDEO input mode without signals.
- 3) Connect R, G and B of the C board cathode to the oscilloscope.
- 4) Adjust G2 (RV701) volume to the value below.



2. WHITE BALANCE ADJUSTMENTS

- 1) Set to Service Mode.
- 2) Input an entire white signal.
- 3) Set the PICTURE to maximum.
- 4) Select RDR(09) with **1** and **4**, and then set the level to 28 with **3** and **6**.
- 5) Select GDR(0A) and BDR(0B) with **1** and **4** and adjust the level with **3** and **6** for the best white balance.
- 6) Write into the memory by pressing **MUTING** → then **0**.

SECTION 4

SELF DIAGNOSIS FUNCTION

If no acknowledgement is returned from a device which is turned "ON", the device has a problem. In this case, one of the LED's responding to the problem device will flicker a defined number of times.

Flickering is operated by lighting the LED's for 60ss each time.

The flickering frequency responding to each failed device is shown below.

Device	NONVOLATILE MEMORY (CAT24C04P)	—	Y/C JUNGLE (TDA8375A)	—	—	TONE CONTROL (TDA8424)
Flickering Frequency	1	—	3	—	—	6

All the devices are checked one after another from the left of the table.

If an error is found, the responding LED will start flickering.

So, if more than 1 device have failed, only the one on the left side will flicker.

SECTION 5

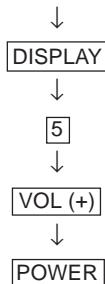
CIRCUIT ADJUSTMENTS

5-1. ADJUSTMENTS WITH COMMANDER

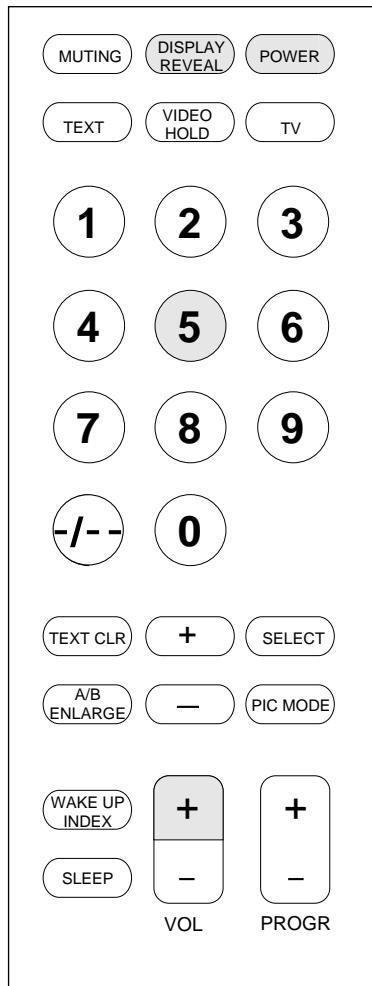
Service adjustments are made with the RM-870 that comes with this unit.

Entering service mode

With the unit on standby



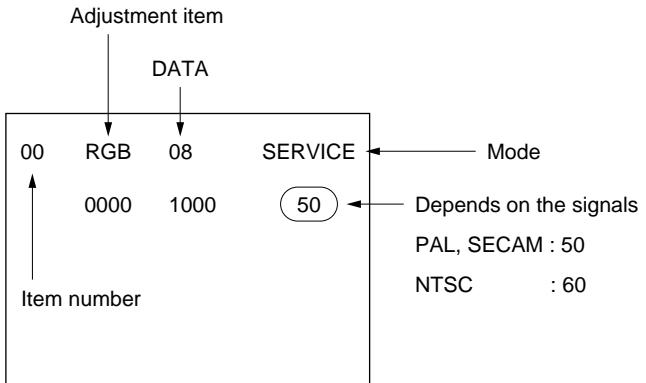
The operation sequence puts the unit into service mode.



[1, 4]	Raise/lower the service item number
[3, 6]	Raise/lower the data
MUTING	Writes
[0]	Executes the writing

[7, 0]	All the data becomes the values in memory
[8, 0]	All user control goes to the standard state
[5, 0]	Service data initialization (Be sure not to use usually.)
[2, 0]	Write 50Hz adjustment data to 60Hz, or vice versa.

The screen display is :



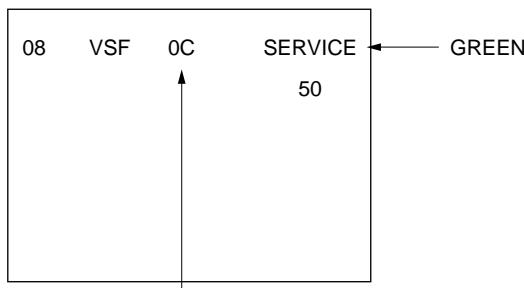
[1, 4]	Select the adjustment item.
[3, 6]	Raise/lower the data.
MUTING	Writes
[0]	Executes the writing.

5-2. ADJUSTMENT METHOD

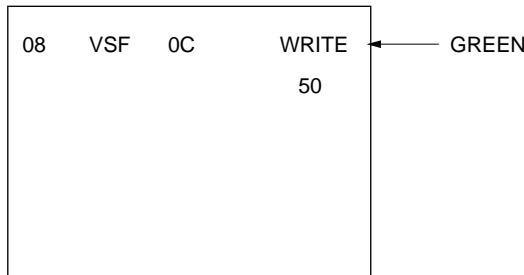
Item Number 08

This explanation uses V-SHIFT as an example.

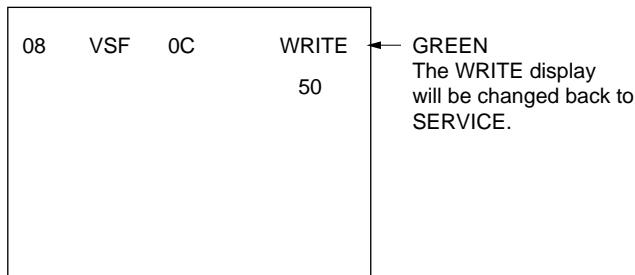
1. Select 08 V-SHIFT with the **[1]** and **[4]** buttons.
2. Raise/lower the data with the **[3]** and **[6]** buttons.
3. Select the optimum state. (The standard is 0F for PAL reception.)
4. Write with the **[MUTING]** button.
5. Execute the writing with the **[0]** button. (The WRITE display will be changed to green SERVICE.)



Adjust with the **[3]** and **[6]** buttons.



Written with the **[MUTING]**.



Write executed with **[0]**.

Use the same method for Items Number 00-4B. Use **[1]** and **[4]** to select the adjustment item, use **[3]** and **[6]** to adjust, write with **[MUTING]**, then execute the write with **[0]**.

Adjustment Item Table

Item number	Adjustment Item	Data range	Initial data	Standard data	Note	Device
00	HSF	00-3F		50:2C 60:33	H SHIFT	TDA8375
01	HSZ	00-3F		50:30 60:30	H SIZE	TDA8375
02	PAP	00-3F		50:25 60:25	PIN AMPLITUDE	TDA8375
03	CNP	00-3F		50:10 60:0C	CORNER PIN	TDA8375
04	TLT	00-3F		50:20 60:2D	TIILT	TDA8375
05	VSL	00-3F		50:1F 60:1F	V SLOPE	TDA8375
06	VAP	00-3F		50:1C 60:1B	V AMPLITUDE	TDA8375
07	SCR	00-3F		50:16 60:16	S CORRECTION	TDA8375
08	VSF	00-3F		50:15 60:15	V SHIFT	TDA8375
09	RDR	00-3F	28		WHITE POINT R	TDA8375
0A	GDR	00-3F	20		WHITE POINT G	TDA8375
0B	BDR	00-3F	20		WHITE POINT B	TDA8375
0C	FO	00-03		TV: 00 VIDEO: 00 TEXT: 01	Ø-1 TIME CONSTANT	TDA8375
0D	AGC	00-3F	30		AGC TAKE OVER	TDA8375
0E	VSW	00-01		TV: 00 VIDEO: 01 TEXT: 00	VIDEO MUTE	TDA8375
0F	FOR	00-03	03		FORCED FIELD FREQ.	TDA8375
10	DL	00-01	00		INTERLACE	TDA8375
11	POC	00-01	00		SYNCHRO MODE FIX	TDA8375
12	VID	00-01	00		VIDEO IDENT MODE	TDA8375
13	HCO	00-01	00		EHT TRACKING MODE	TDA8375
14	EVG	00-01	00		ENABLE V GUARD	TDA8375
15	SBL	00-01	00		SERVICE BLANKING	TDA8375
16	PRD	00-01	00		OVER-VOLTAGE INPUT	TDA8375
17	COR	00-01	00		NOISE CORING PEAK	TDA8375
18	PMX	00-3F	2B		PICTURE MAX DATA	TDA8375
19	PMI	00-3F	04		PICTURE MIN DATA	TDA8375
1A	SBR	00-7F	4B		SUB-BRIGHTNESS	TDA8375
1B	SHU	00-0F	06		SUB-HUE	TDA8375
1C	SSH	00-03	01	TV: 01 VIDEO: 02	SUB-SHARPNESS	TDA8375
1D	SC1	00-3F	1F	50:26 60:29	SUB-COLOR LOWER	TDA8375
1E	SC2	00-3F	0B	50:0C 60:0F	SUB-COLOR HIGHER	TDA8375
1F	AIP	00-7F	3F		ADJUSTMENT IF PLL	TDA8375
20	VZM	00-3F	19		VERTICAL ZOOM	TDA8375

Adjustment Item Table

Item number	Adjustment Item	Data range	Initial data	Standard data	Note	Device
21	FAW	00-FF	08		NICAM FAW THRESH	MSP3410
22	CTM	00-FF	08		NICAM ERROR BIT (MONO)	MSP3410
23	CTN	00-FF	50		NICAM ERROR BIT (NICAM)	MSP3410
24	WCD	00-FF	0A		W. G. CHANGE DATA	MSP3410
25	WST	00-FF	15		W. G. STEREO CUT POINT	MSP3410
26	WTM	00-FF	50		W. G. TIMER CHANGE	MSP3410
27	WBT	00-FF	EA		W. G. BILINGUAL CUT POINT	MSP3410
28	ACG	00-01	01		AGC AUTO/CONSTANT	MSP3410
29	CDB	00-3F	28		AGC GAIN CONSTANT	MSP3410
2A	FGP	00-7F	24		FM (BG, I, DK) PRESCALE	MSP3410
2B	FMP	00-7F	40		FM (M) PRESCALE	MSP3410
2C	WGP	00-7F	3C		W. G. PRESCALE	MSP3410
2D	NIP	00-7F	7F		NICAM PLESCALE	MSP3410
2E	CRM	00-01	00		CARRIER MUTE	MSP3410
2F	CML	00-03	00		CARRIER MUTE LEVEL	MSP3410
30	ACO	00-01	01		AUDIO CLOCK OUT	MSP3410
31	WAC	00-01	01		W. G. AGREEMENT COUNT	MSP3410
32	DLY	00-FF	30		STEREO SEARCH DELAY	MSP3410
33	DLG	00-FF	10		INTERVAL OF ID CHECK	MSP3410
34	TXP	00-0F	07		TEXT PICTURE	SAA5281
35	MXP	00-0F	0A		TEXT MIX MODE PICTURE	SAA5281
36	BKP	00-3F	00		BLK OFF PICTURE	μ-CON
37	HBL	00-3F	25		H BLK LEFT WIDTH	μ-CON
38	HBR	00-3F	20		H BLK RIGHT WIDTH	μ-CON
39	VBH	00-7F	00		V BLK HIGHT WIDTH	μ-CON
3A	VBL	00-FF	FF		V BLK LOW WIDTH	μ-CON
3B	ODL	00-FF	10		POWER ON DELAY	μ-CON
3C	OFR	00-0F	00		STBY → ON RGB OUT	μ-CON
3D	OFM	00-0F	00		MAIN POWER RGB OUT	μ-CON
3E	OSH	00-3F	0A		OSD POSITION H	μ-CON
3F	DKS	00-01	00		D/K NICAM	μ-CON
40	MUT	00-01	00		NO SYNC. MUTE	μ-CON
41	DWZ	00-01	00		DISEBLE WIDEZOOM	μ-CON
42	ABL	00-01	00		BRIGHT ABL	μ-CON
43	DTV	00-01	00		DISABLE TV SYSTEM KEY	μ-CON
44	SCM	00-01	00		SECAM TRAP ACTIVE	μ-CON
45	ROC	00-0F	07		ROTATION CENTER	μ-CON
46	ROS	00-07	03		ROTATION STEP WIDTH	μ-CON
47	DVM	00-01	00		DISABLE VM MUTE	μ-CON
48	FBT	00-01	01		C/M FOR FBT LAYER SHORT	μ-CON
49	OP0	00-FF	40		OPTION 0	μ-CON
4A	OP1	00-FF	07		OPTION 1	μ-CON
4B	OP2	00-FF	00		OPTION 2	μ-CON

NOTE

- Standard Data: Those are the standard data values written on the microprocessor. Therefore, the data values of the modes are stored respectively in the memory.
In case of a device replacement, adjustment by rewriting the data value is necessary for some items.
- 50 50 Hz data
- 60 60 Hz data
- Standard data listed on the adjustment item table are reference values, therefore it is different for every model.

ITEM INFORMATION

- 10. DL: TV/MIX Mode 0=Interlace 1=Non interlace, TEXT Mode 0=Non interlace 1=Interlace
- 42. ABL: Bright ABL ON/OFF ON=1 OFF=0
- 49. OP0, • 4A. OP1 • 4B. OP2 :

Input data are different according to models.

AV INPUT : 00 → NO MODEL, 01 → MONO, CXA1315, 10/11 → STEREO, TDA8424

TV System : 00 → Multi model, 01 → B/G, 10 → D/K, I, 11 → B/G, D/K

NTSC, SECAM, Chin

Shrp : Dynamic Mode @ 1 → Sharpness 50%, 0 → Sharpness 70%.

VM Operation : 0 → OFF, 1 → ON

No. 49 OP0 * Input data are different according to models

Item	TILT	AV Input		Sharp 50%	Remote Preset	Auto Program	Video Text	Reserved
KV-T21MN8	0	1	0	0	0	1	0	0
KV-T21MN81	0	1	0	0	1	1	0	0

No. 4A OP1

Item	Wide	Tilt	–	TV System		NT3.58	SECAM	Chinese
KV-T21MN8	0	0	0	0	0	1	1	1
KV-T21MN81	0	0	0	0	0	1	1	1

No. 4B OP2

Item	–	–	–	–	High Dev.	100 Prg	–	S. Video
KV-T21MN8	0	0	0	0	0	1	0	0
KV-T21MN81	0	0	0	0	0	1	0	0

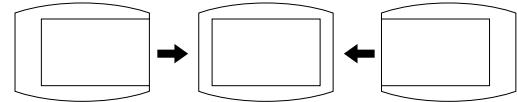
5-3. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

1. Enter to Service Mode.
2. Press commander buttons **5** and **0** (Data Initialize), and **2** and **0** (Data Copy) to initialize the data.
3. Call each item number, and check if the respective screen shows the normal picture.
In case some items are not well-adjusted, give them fine adjustment.
Write the data per each item number (**MUTING** + **0**).
4. Select item numbers “49” (OP0), “4A” (OP1) and “4B” (OP2) and respectively set the bit per model with command buttons **3** and **6**.
5. Press commander buttons **8** and **0** (Test Normal) to return to the data that was set on the shipment from the factory.
(= Cancel Service Mode.)

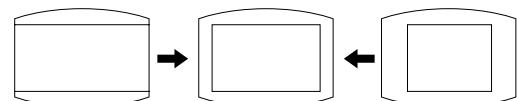
5-4. PICTURE DISTORTION ADJUSTMENT

Item Number 00 – 08

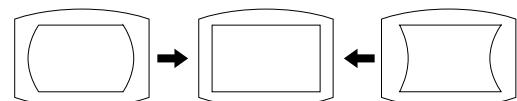
00 HSF (H SHIFT)



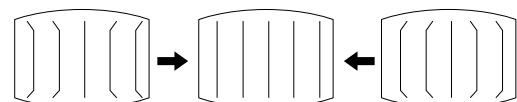
01 HSZ (H SIZE)



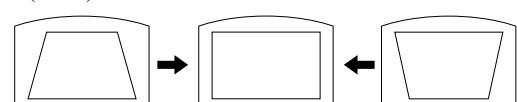
02 PAP (PIN AMPLITUDE)



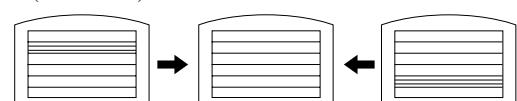
03 CNP (CORNER PIN)



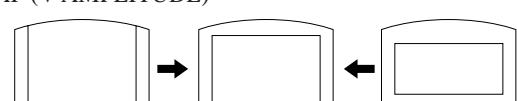
04 TLT (TILT)



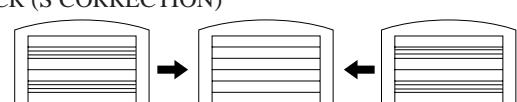
05 VSL (V SLOPE)



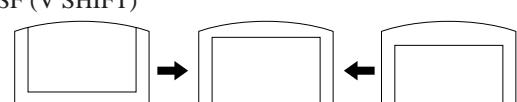
06 VAP (V AMPLITUDE)



07 SCR (S CORRECTION)



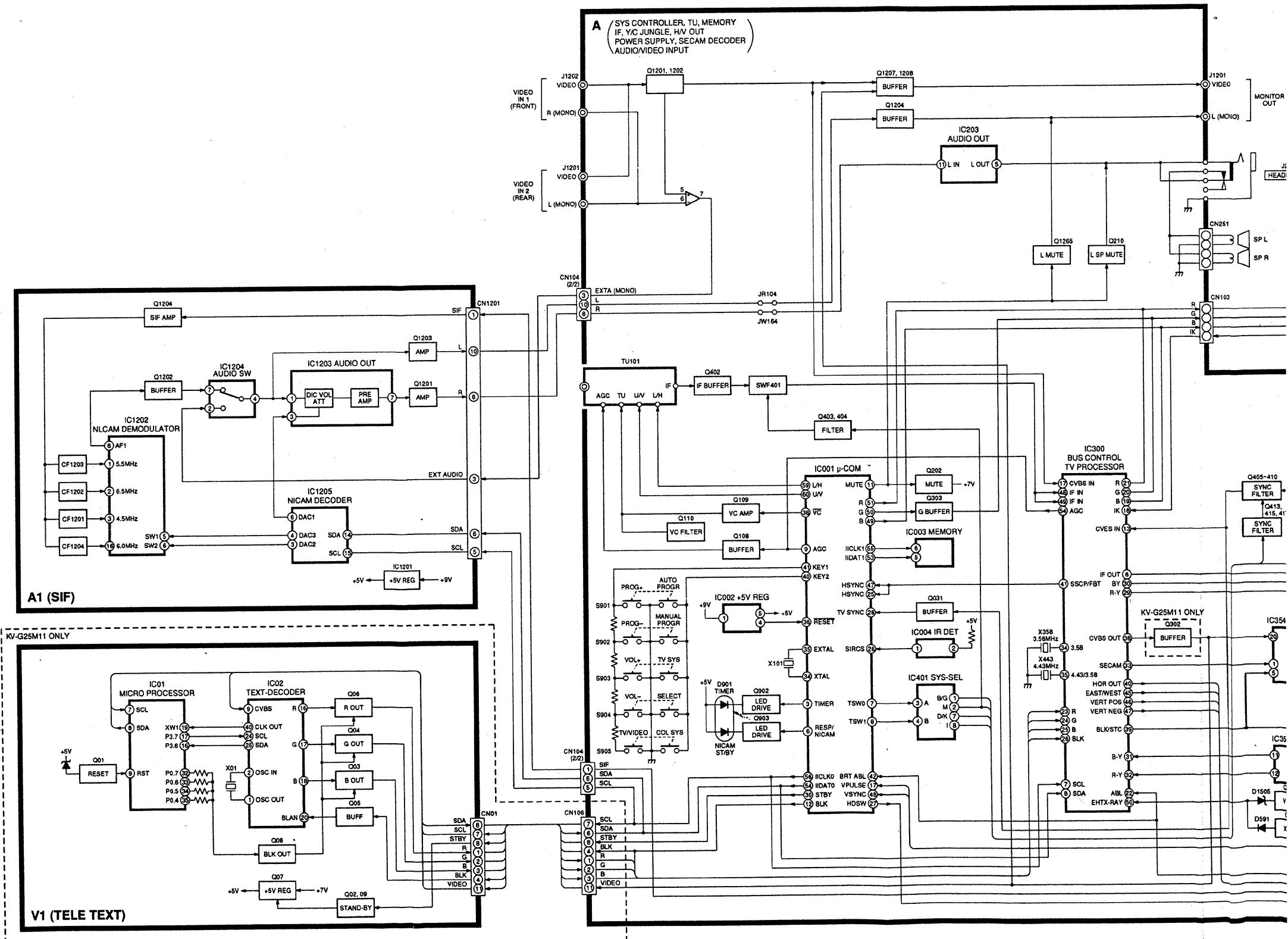
08 VSF (V SHIFT)

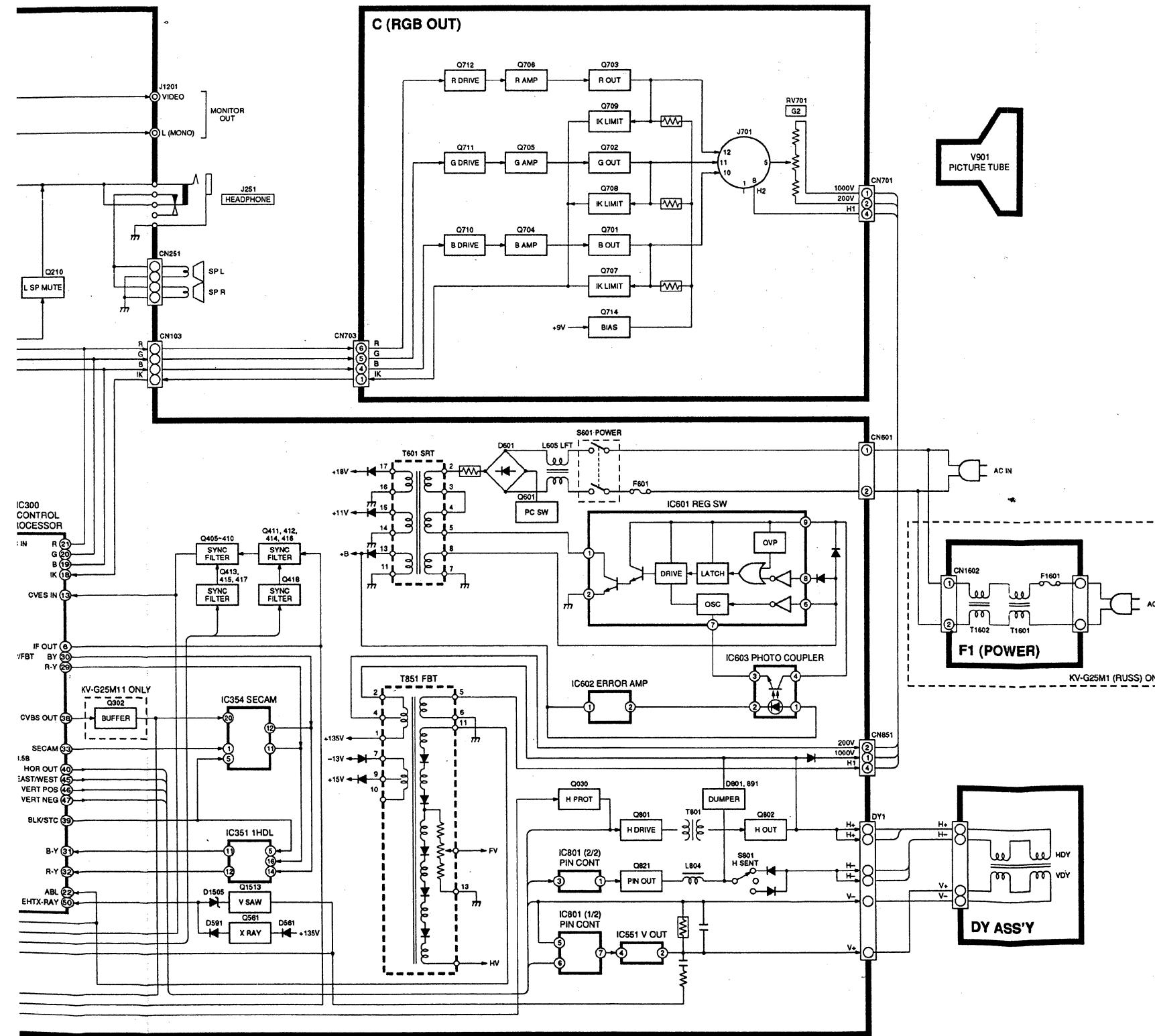


MEMO

SECTION 5 DIAGRAMS

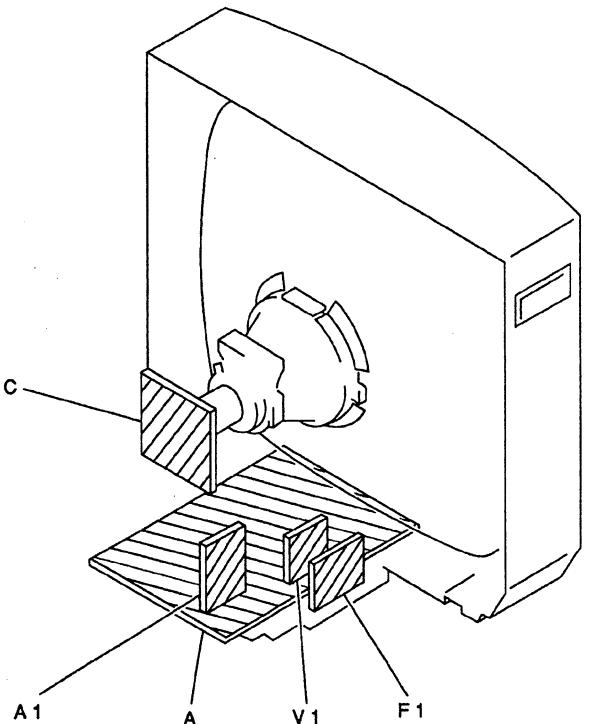
5-1. BLOCK DIAGRAMS





PRINTED WIRING BOARD

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms. $\text{k}\Omega = 100\Omega$, $\text{M}\Omega = 1000\text{k}\Omega$.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power 1/4W (CHIP: 1/10W)

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.
- no mark : PAL
- () : SECAM
- < > : NTSC 4.43
- Readings are taken with a 10 $\text{M}\Omega$ digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- * : Can not be measured.
- Circled numbers are waveform reference.
- : $\text{B}+$ bus.
- : $\text{B}-$ bus.
- : signal path.

Reference Information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFRAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

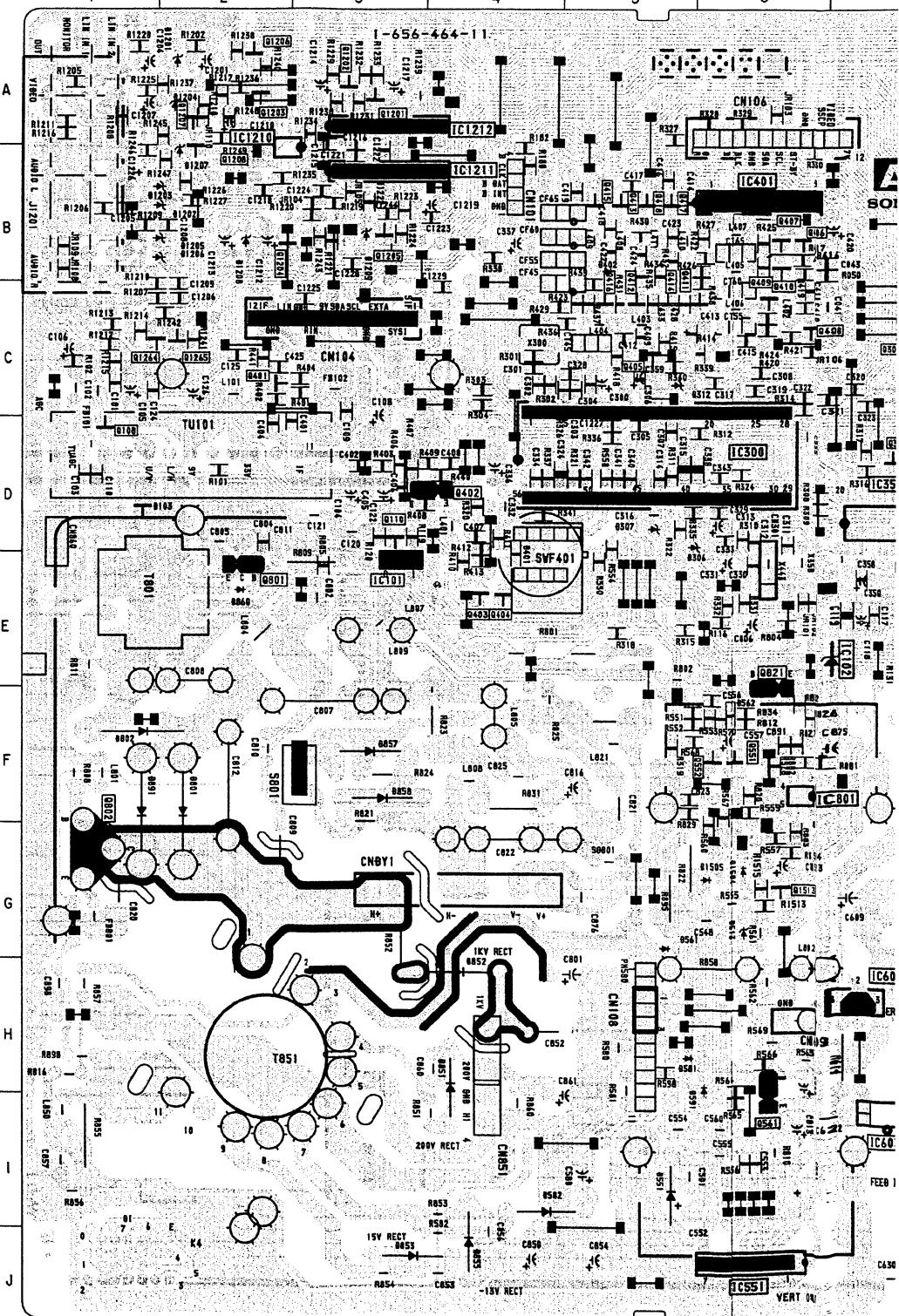
Note: The component identified by shading and mark are critical for safety. Replace only with part number specified.

A [SYS CONTROLLER, TU, MEMORY, IF, Y/C JUNGLE
H/V OUT, POWER SUPPLY, SECAM DECODER, AUDIO/VIDEO INPUT]

- A Board -

A BOARD

IC	Q1208	B-2
IC001	D-11	
IC002	E-10	
IC003	E-11	
IC004	I-13	
IC102	E-7	
IC203	B-10	
IC300	D-6	
IC351	D-8	
IC354	D-7	
IC401	B-6	
IC521	E-8	
IC551	J-6	
IC601	J-8	
IC602	H-7	
IC603	I-7	
IC801	F-6	
IC1210	A-2	
DIODE		
D001	D-9	
D002	C-12	
D003	C-10	
D004	E-12	
D005	E-8	
D101	B-8	
D102	B-9	
D103	D-1	
D251	B-8	
D252	B-13	
D301	C-7	
D302	D-8	
D303	D-8	
D304	C-8	
D305	D-7	
D306	D-6	
D307	D-5	
D308	C-10	
D310	D-8	
D311	D-8	
D312	C-5	
D313	D-8	
D314	D-8	
D351	E-8	
D401	D-4	
D402	B-5	
D403	B-9	
D513	G-6	
Q030	C-12	
Q031	C-8	
Q108	D-1	
Q109	E-12	
Q110	D-3	
Q202	B-8	
Q207	B-10	
Q208	B-10	
Q210	B-9	
Q301	C-7	
Q302	D-7	
Q303	C-8	
Q402	D-4	
Q403	E-4	
Q404	E-4	
Q405	C-5	
Q406	B-6	
Q407	B-6	
Q408	C-6	
Q409	C-6	
Q410	B-6	
Q411	C-6	
Q412	C-5	
Q413	B-5	
Q414	C-5	
Q415	B-5	
Q416	C-5	
Q417	B-5	
Q418	B-5	
Q561	I-6	
Q601	G-12	
Q801	E-2	
Q802	G-1	
Q821	E-6	
Q902	H-13	
Q903	H-13	
Q1201	A-3	
Q1202	A-3	
Q1203	A-2	
Q1204	B-2	
Q1205	D-10	
TRANSISTOR		
Q030	C-12	
Q031	C-8	
Q108	D-1	
Q109	E-12	
Q110	D-3	
Q202	B-8	
Q207	B-10	
Q208	B-10	
Q210	B-9	
Q301	C-7	
Q302	D-7	
Q303	C-8	
Q402	D-4	
Q403	E-4	
Q404	E-4	
Q405	C-5	
Q406	B-6	
Q407	B-6	
Q408	C-6	
Q409	C-6	
Q410	B-6	
Q411	C-6	
Q412	C-5	
Q413	B-5	
Q414	C-5	
Q415	B-5	
Q416	C-5	
Q417	B-5	
Q418	B-5	
Q561	I-6	
Q601	G-12	
Q801	E-2	
Q802	G-1	
Q821	E-6	
Q902	H-13	
Q903	H-13	
Q1201	A-3	
Q1202	A-3	
Q1203	A-2	
Q1204	B-2	
Q1205	D-10	



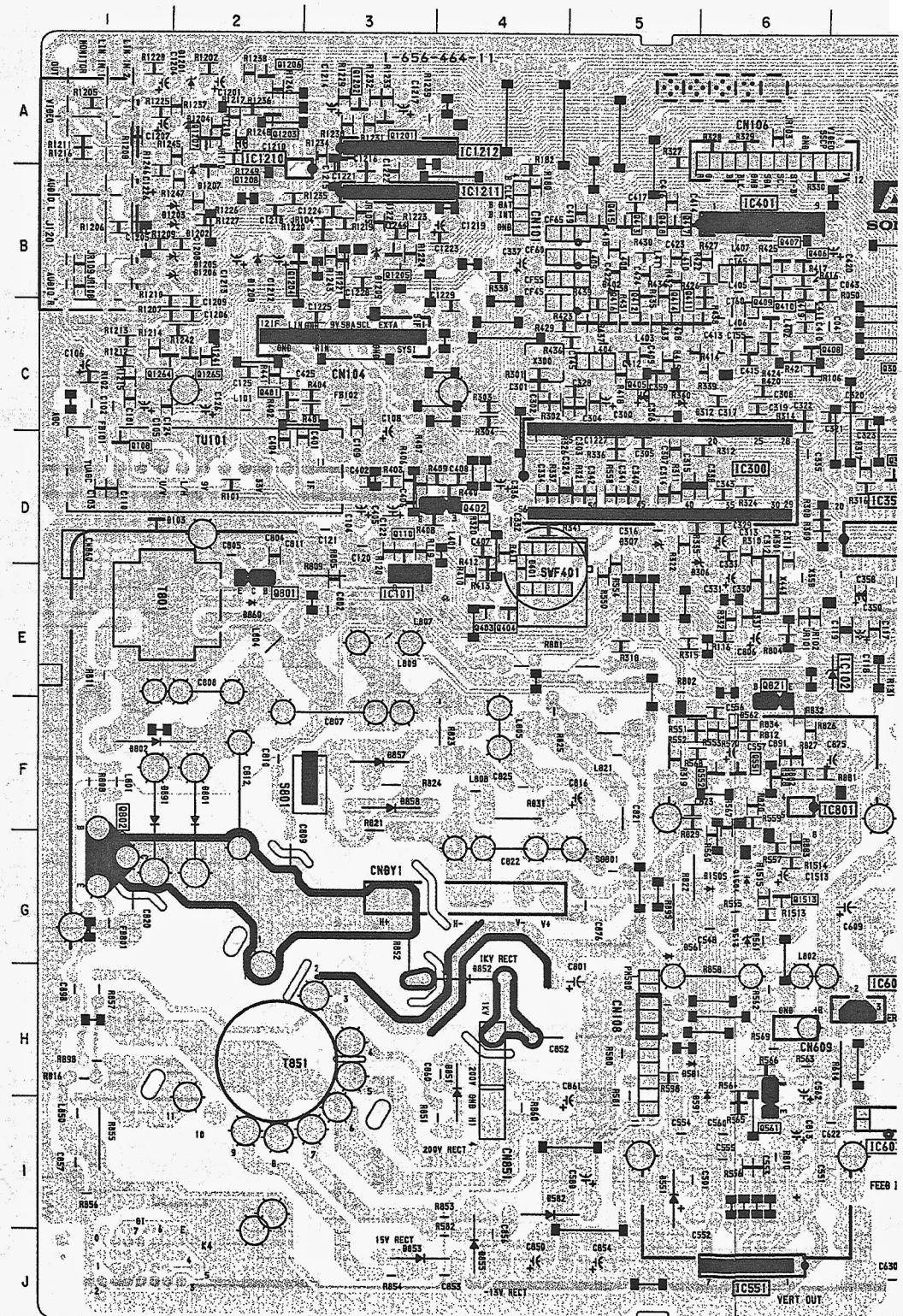
PRINTED WIRING BOARD

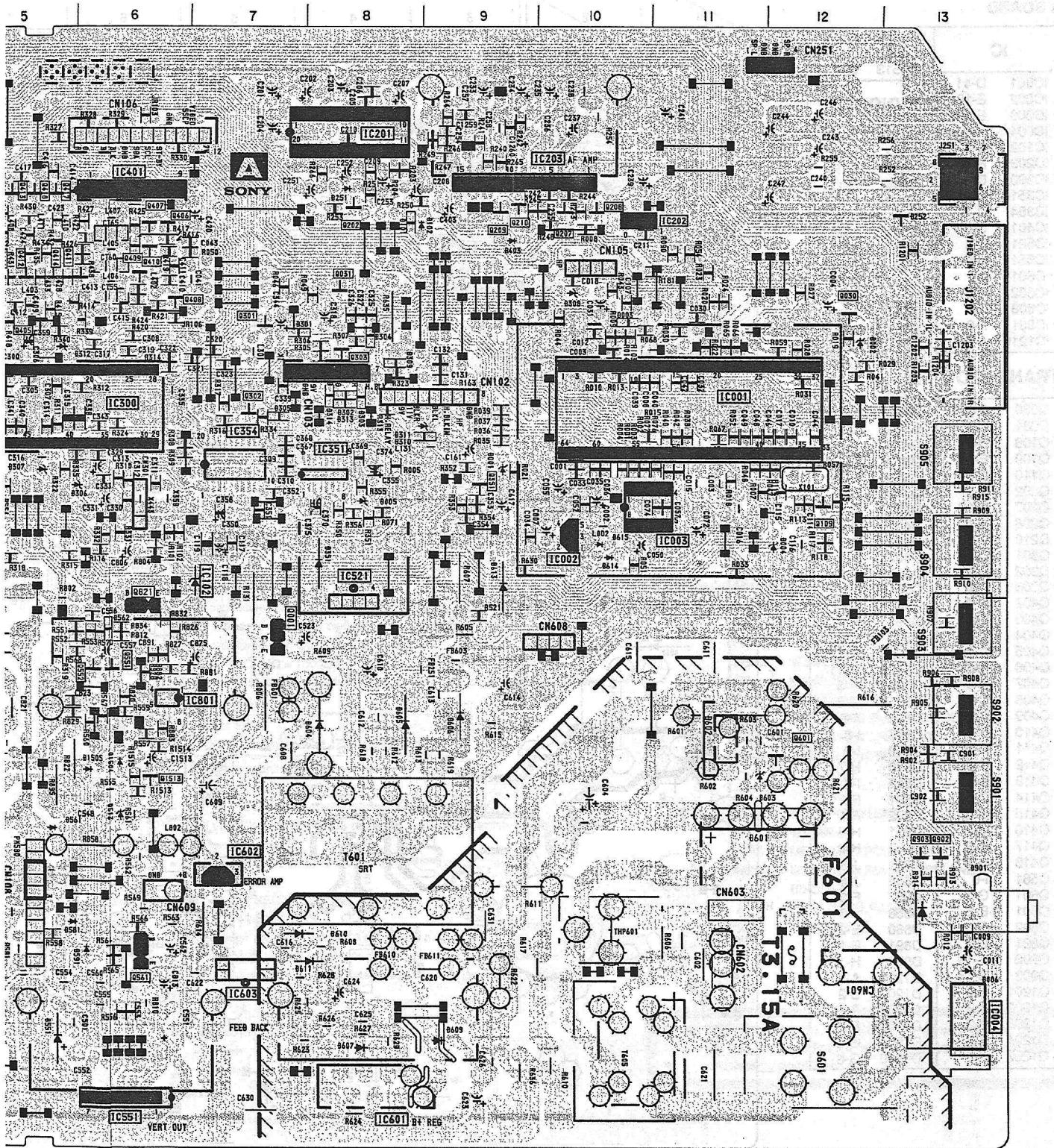
A [SYS CONTROLLER, TU, MEMORY, IF, Y/C JUNGLE
H/V OUT, POWER SUPPLY, SECAM DECODER, AUDIO/VIDEO INPUT]

– A Board –

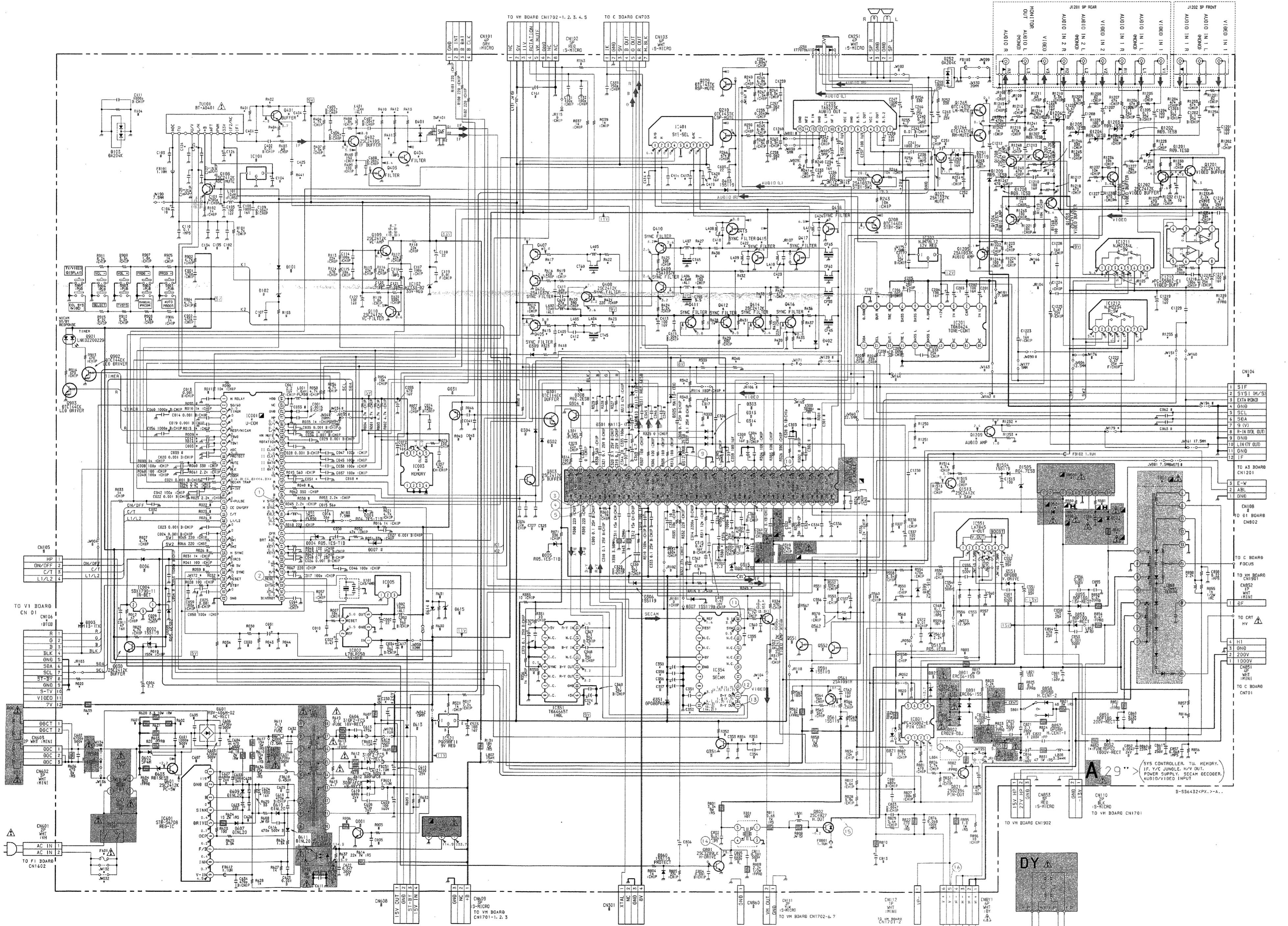
A BOARD

IC		Q1208 B-2 Q1265 C-2 Q1513 G-6	
		DIODE	
IC001	D-11	D001	D-9
IC002	E-10	D002	C-12
IC003	E-11	D003	C-10
IC004	I-13	D004	E-12
IC102	E-7	D005	E-8
IC203	B-10	D101	B-8
IC300	D-6	D102	B-9
IC351	D-8	D103	D-1
IC354	D-7	D251	B-8
IC401	B-6	D252	B-13
IC521	E-8	D301	C-7
IC551	J-6	D302	D-8
IC601	J-8	D303	D-8
IC602	H-7	D304	C-8
IC603	I-7	D305	D-7
IC801	F-6	D306	D-6
IC1210	A-2	D307	D-5
TRANSISTOR		D308 C-10 D310 D-8 D311 D-8 D312 C-5 D313 D-8 D314 D-8 D351 E-8 D401 D-4 D402 B-5 D403 B-9 D513 G-6 D551 I-5 D561 G-5 D591 H-6 D601 G-11 D602 G-11 D603 G-11 D604 G-8 D605 G-8 D606 F-9 D607 I-8 D609 I-9 D610 H-7 D611 I-8 D801 F-2 D802 F-1 D851 H-4 D852 H-4 D853 J-3 D855 J-4 D857 F-3 D858 F-3 D860 E-2 D891 F-1 D901 H-13 D1201 A-2 D1202 B-2 D1207 B-2 D1208 B-2 D1504 G-6 D1505 G-6	
Q030	C-12		
Q031	C-8		
Q108	D-1		
Q109	E-12		
Q110	D-3		
Q202	B-8		
Q207	B-10		
Q208	B-10		
Q210	B-9		
Q301	C-7		
Q302	D-7		
Q303	C-8		
Q402	D-4		
Q403	E-4		
Q404	E-4		
Q405	C-5		
Q406	B-6		
Q407	B-6		
Q408	C-6		
Q409	C-6		
Q410	B-6		
Q411	C-6		
Q412	C-5		
Q413	B-5		
Q414	C-5		
Q415	B-5		
Q416	C-5		
Q417	B-5		
Q418	B-5		
Q561	I-6		
Q601	G-12		
Q801	E-2		
Q802	G-1		
Q821	E-6		
Q902	H-13		
Q903	H-13		
Q1201	A-3		
Q1202	A-3		
Q1203	A-2		
Q1204	B-2		
Q1207	A-2		

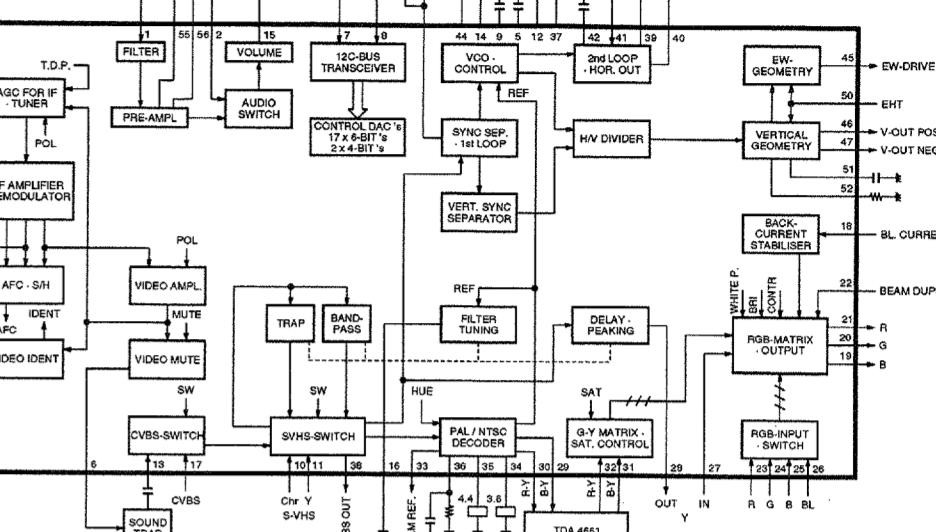




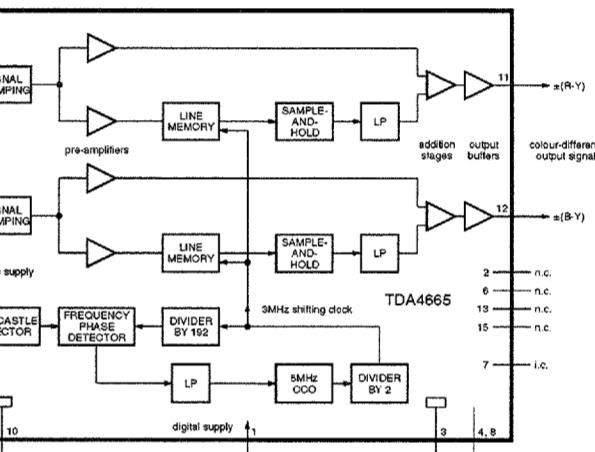
卷之三



BOARD IC300 TDA8375A



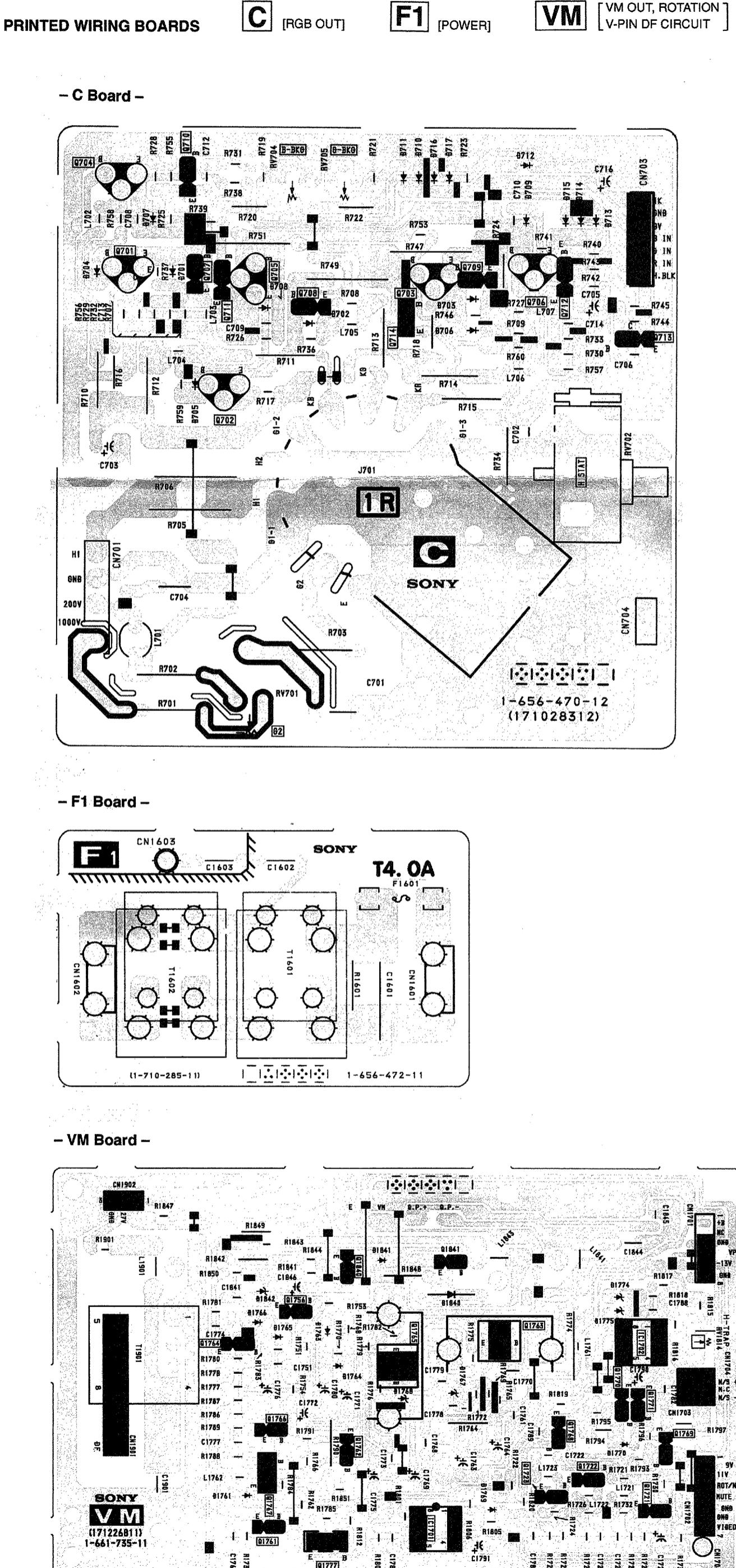
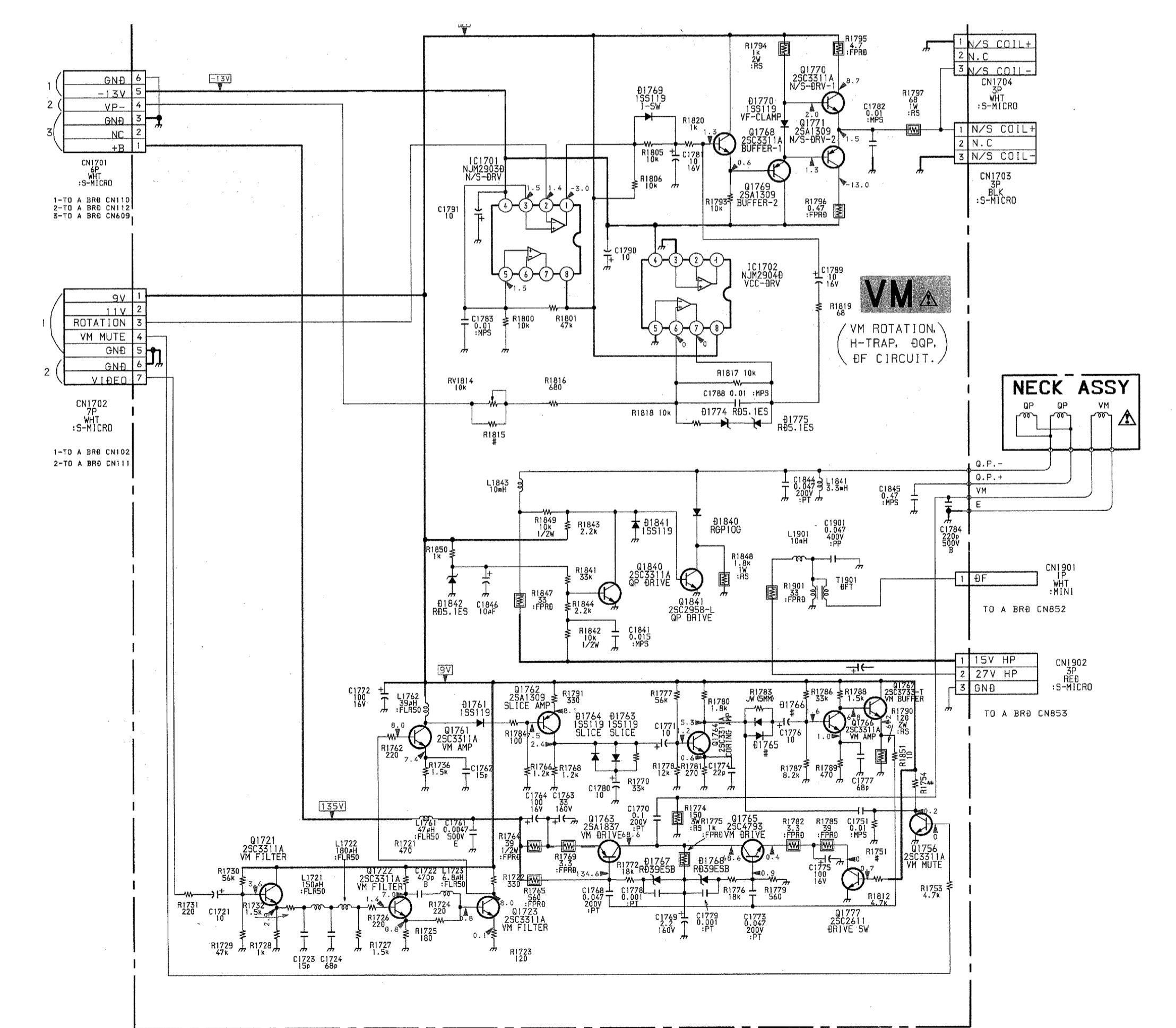
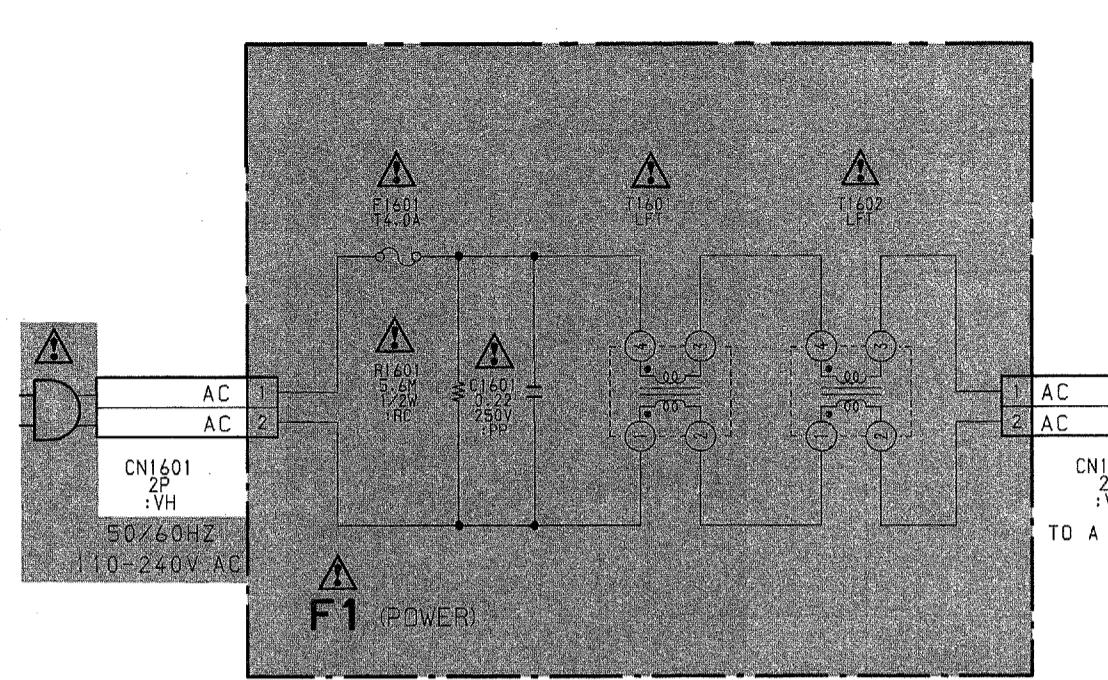
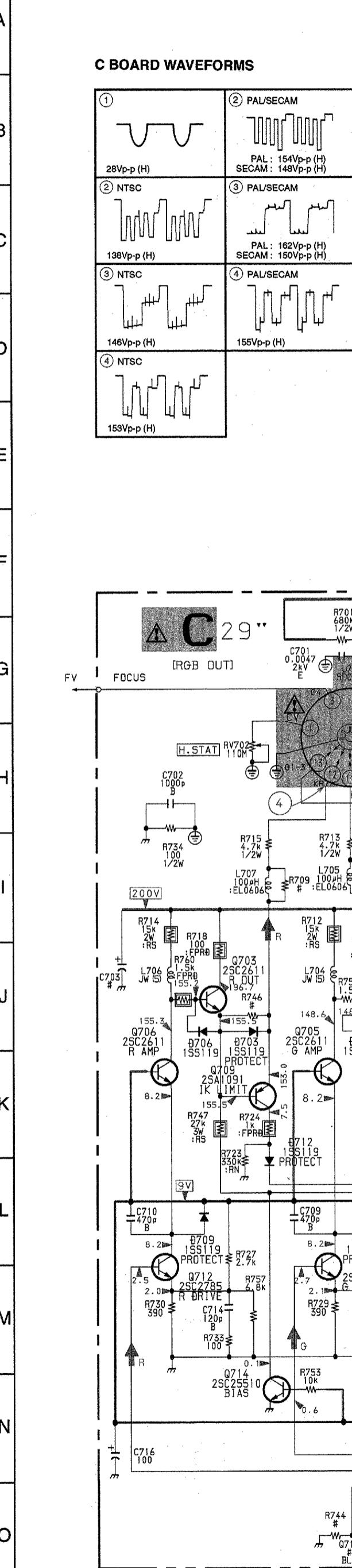
BOARD IC351 TDA4665T-T



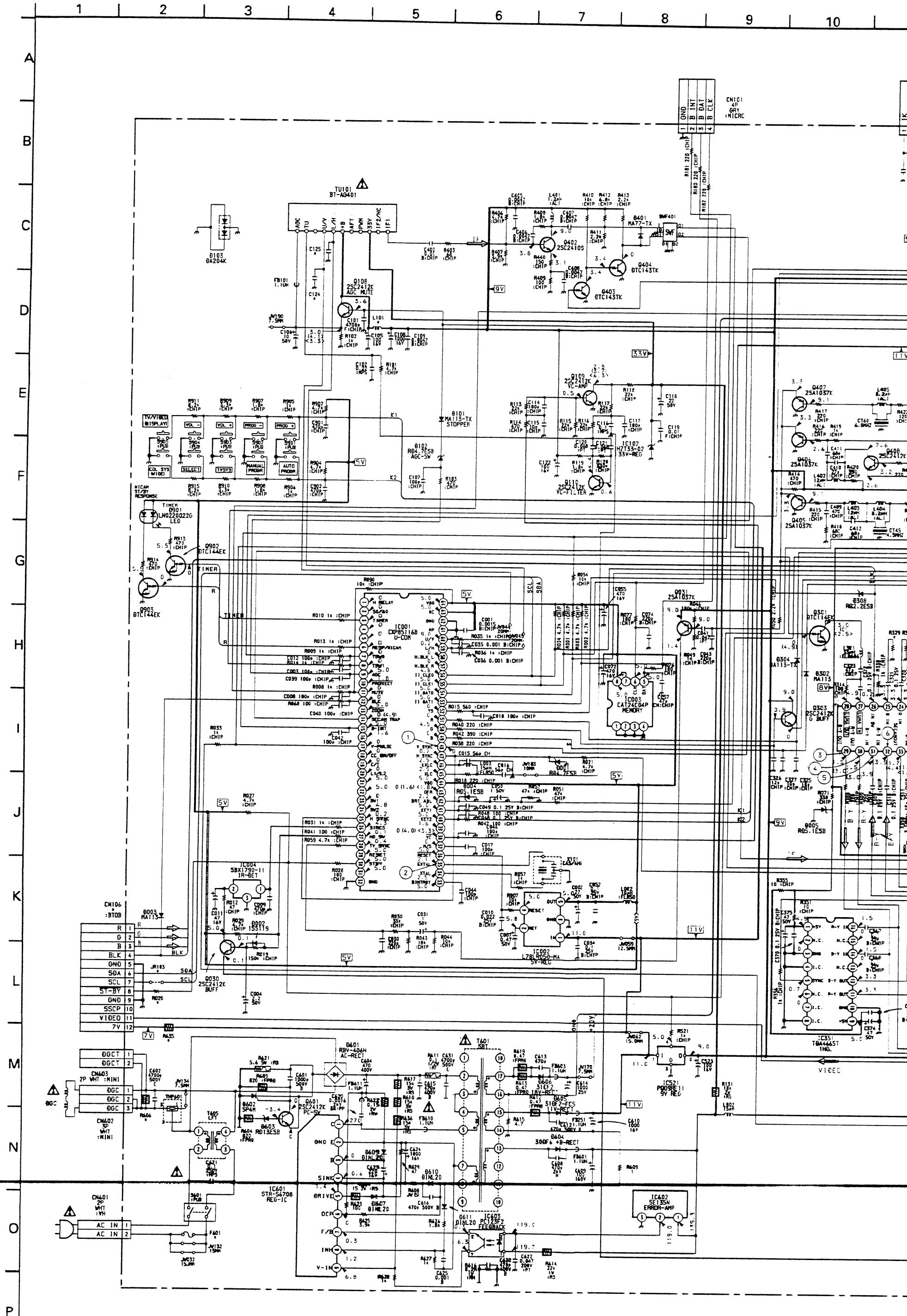
STANDARD * MARK LIST

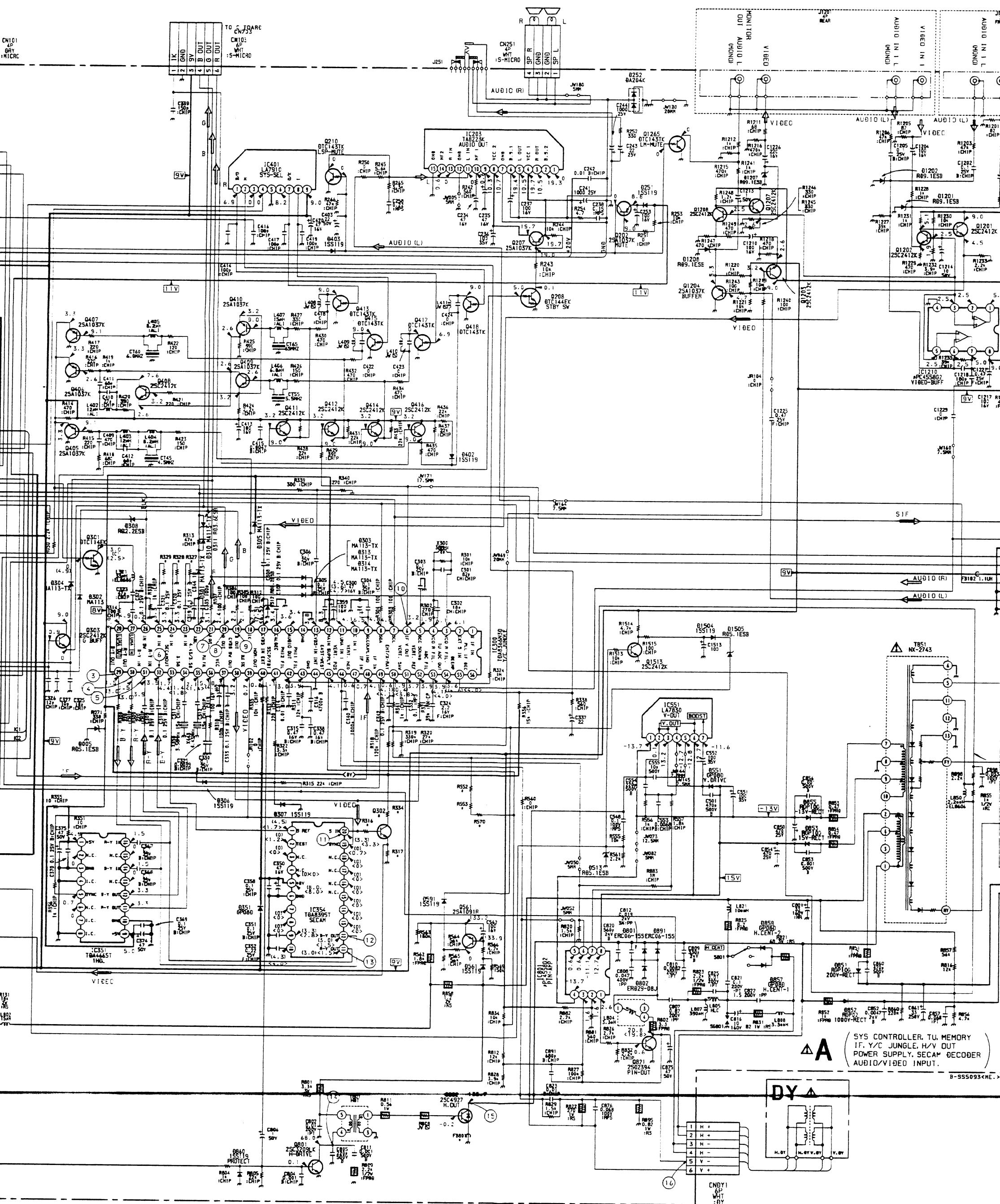
KV-T29CF1	KV-T29CF1	KV-T29CF1	KV-T29CF1
100p :CHIP	100 16V	L404	8.2μH :ALI
0.022 :CHIP	0.47 25V :CHIP	L405	8.2μH :ALI
100p :CHIP	0.1 25V B:CHIP	L407	15μH :ALI
100p :CHIP	0.47 25V :CHIP	L408	1.8μH
#		L409	2.2μH
0.1 25V B:CHIP		L410	2.2μH
0.1 25V B:CHIP		L411	2.7μH
0.1 25V B:CHIP		Q401	#
2.2 10V B:CHIP	156710111	Q403	DTC143TK
0.1 25V B:CHIP	#	Q404	DTC143TK
3300p B:CHIP	CT45	Q405	2SA1037K
10	CT60	Q407	2SA1037K
0.1 25V B:CHIP	CT65	Q410	2SA1037K
47 16V	D401	Q411	2SC2412K
0.1 25V B:CHIP	D402	Q412	2SC2412K
0.22 18V B:CHIP	D581	Q413	DTC143TK
0.1 25V B:CHIP	D582	Q415	DTC143TK
#	D601	Q416	2SC2412K
#	F601	Q417	DTC143TK
47p :CHIP	IC001	Q418	DTC143TK
68p :CHIP	IC003	Q1209	2SD601A
100p :CHIP	IC354	R009	1K :CHIP
100p :CHIP	IC401	R014	1K :CHIP
100p :CHIP	JR050	R020	#
330p :CHIP	JR052	R032	#
100p :CHIP	JR103	R300	470k
330p :CHIP	JR107	R319	470k :CHIP
330p :CHIP	JR114	R327	0 :CHIP
470p :CHIP	JW032	R328	0 :CHIP
#	JW104	R329	0 :CHIP
0.1 100V :PT	JW132	R339	300 :CHIP
1.200V	JW151	R340	270 :CHIP
470p 250V	JW172	R342	#
470p 250V	JW179	R343	#
0.068 400V :PP	JW200	R401	#
680p 2KV	JW201	R402	#
0.068 100V :PT	L403	R404	#
	12μH :ALI		

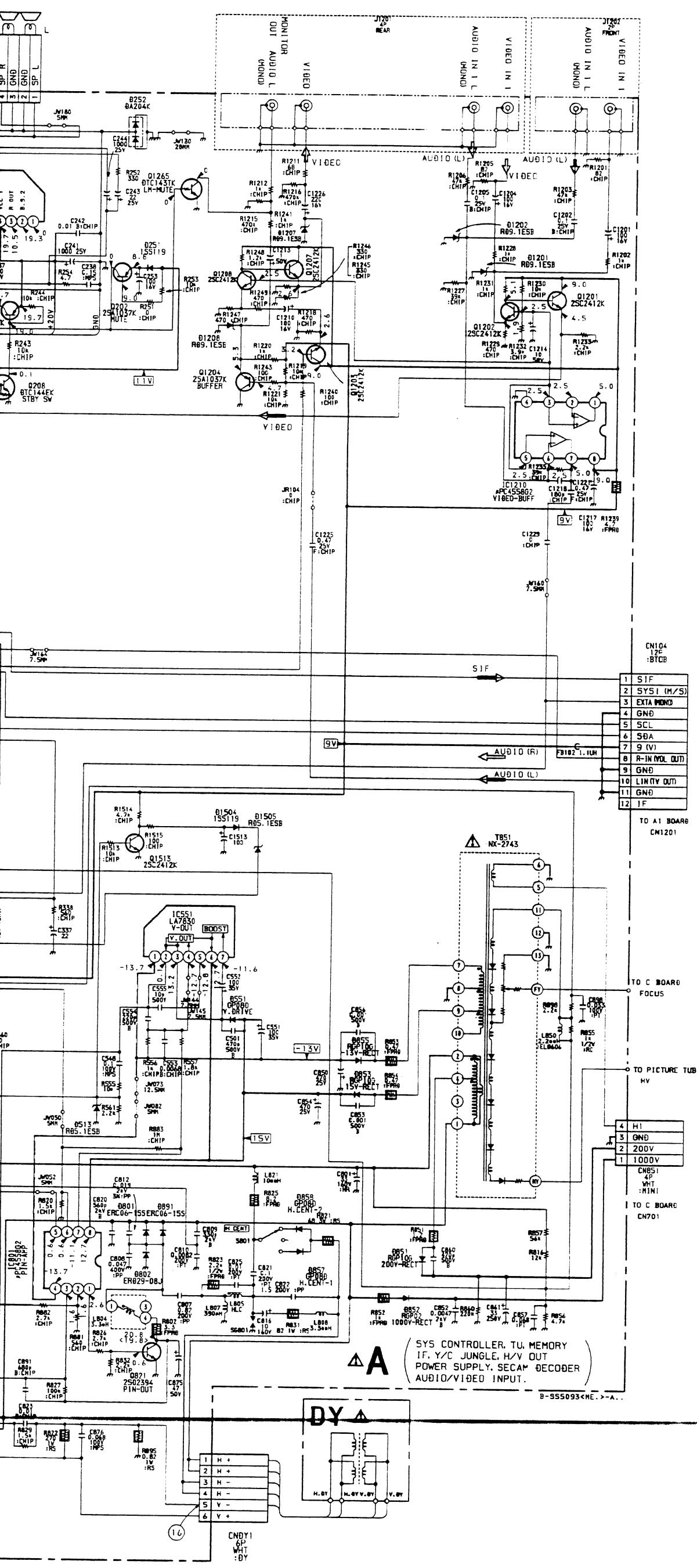
Note: The parts indicated as '# ' in this circuit diagram are not listed here, as they are not used for this model.



(1) Schematic Diagram of A Board



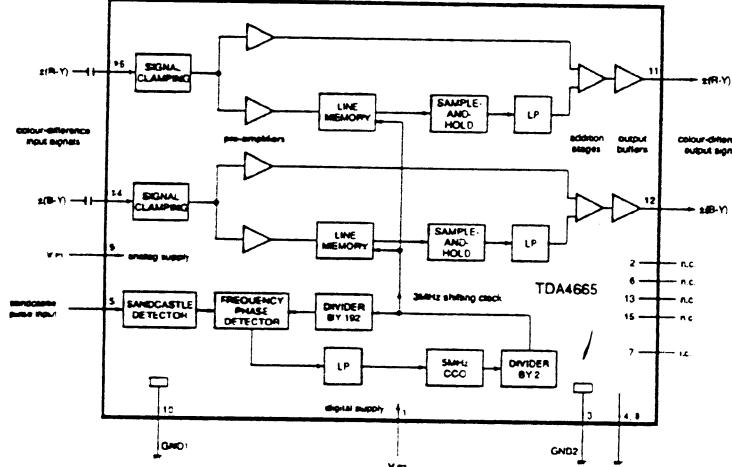




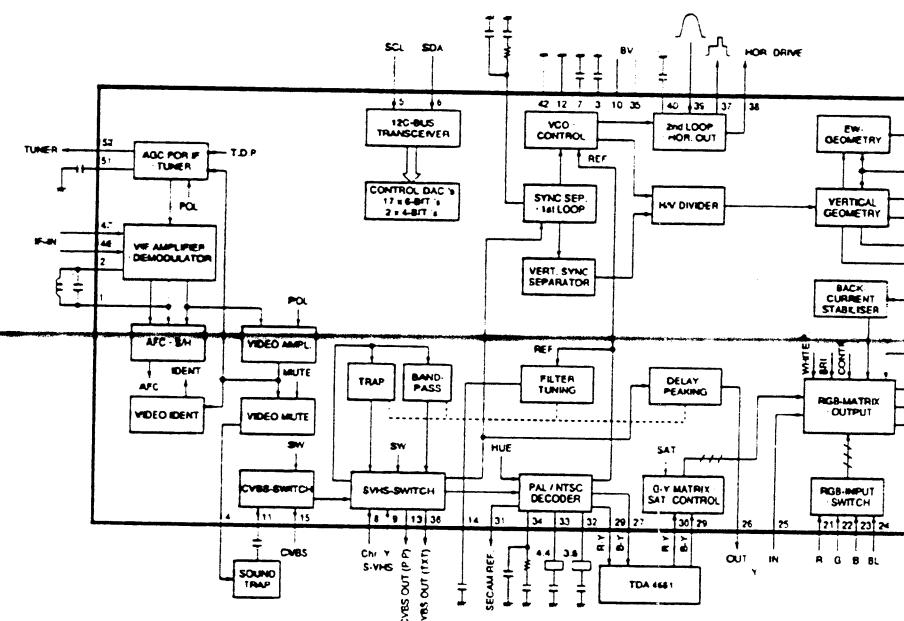
A BOARD * MARK LIST

	KV-G25M1(ME)	KV-G25M1(HK)	KV-G25M1(
CN106	NOT USED	NOT USED	NOT US
CN601	TO POWER CORD	TO POWER CORD	TO F1 BOARD
F601	T3.15A	T3.15A	NOT US
FB801	1.1uH	1.1uH	1.9uH
JR103	NOT USED	NOT USED	NOT US
JW032	NOT USED	NOT USED	15MM
JW132	NOT USED	NOT USED	15MM
Q302	NOT USED	NOT USED	NOT US
R020	NOT USED	NOT USED	NOT US
R316	NOT USED	NOT USED	NOT US
R317	NOT USED	NOT USED	NOT US
R327	0 : CHIP	0 : CHIP	0 : CHIP
R328	0 : CHIP	0 : CHIP	0 : CHIP
R329	0 : CHIP	0 : CHIP	0 : CHIP
R334	NOT USED	NOT USED	NOT US
R552	NOT USED	NOT USED	220K : CHIP
R553	NOT USED	NOT USED	0 : CHIP
R570	NOT USED	NOT USED	0 : CHIP
R635	NOT USED	NOT USED	NOT USE

A BOARD IC351 TDA4665T



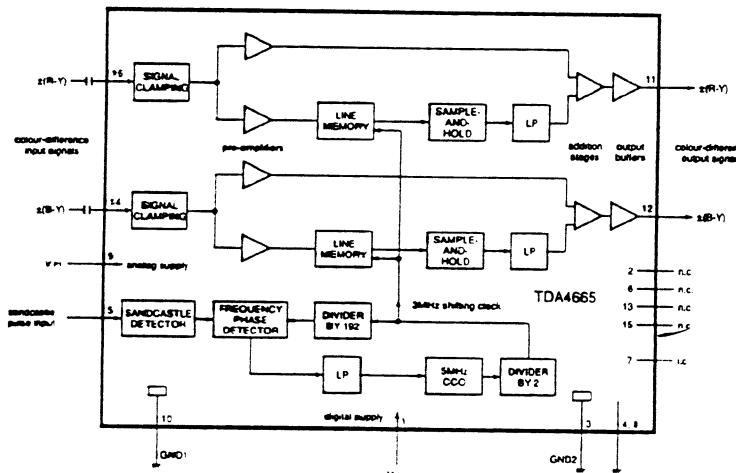
A BOARD IC300 TDA8366N3D



A BOARD * MARK LIST

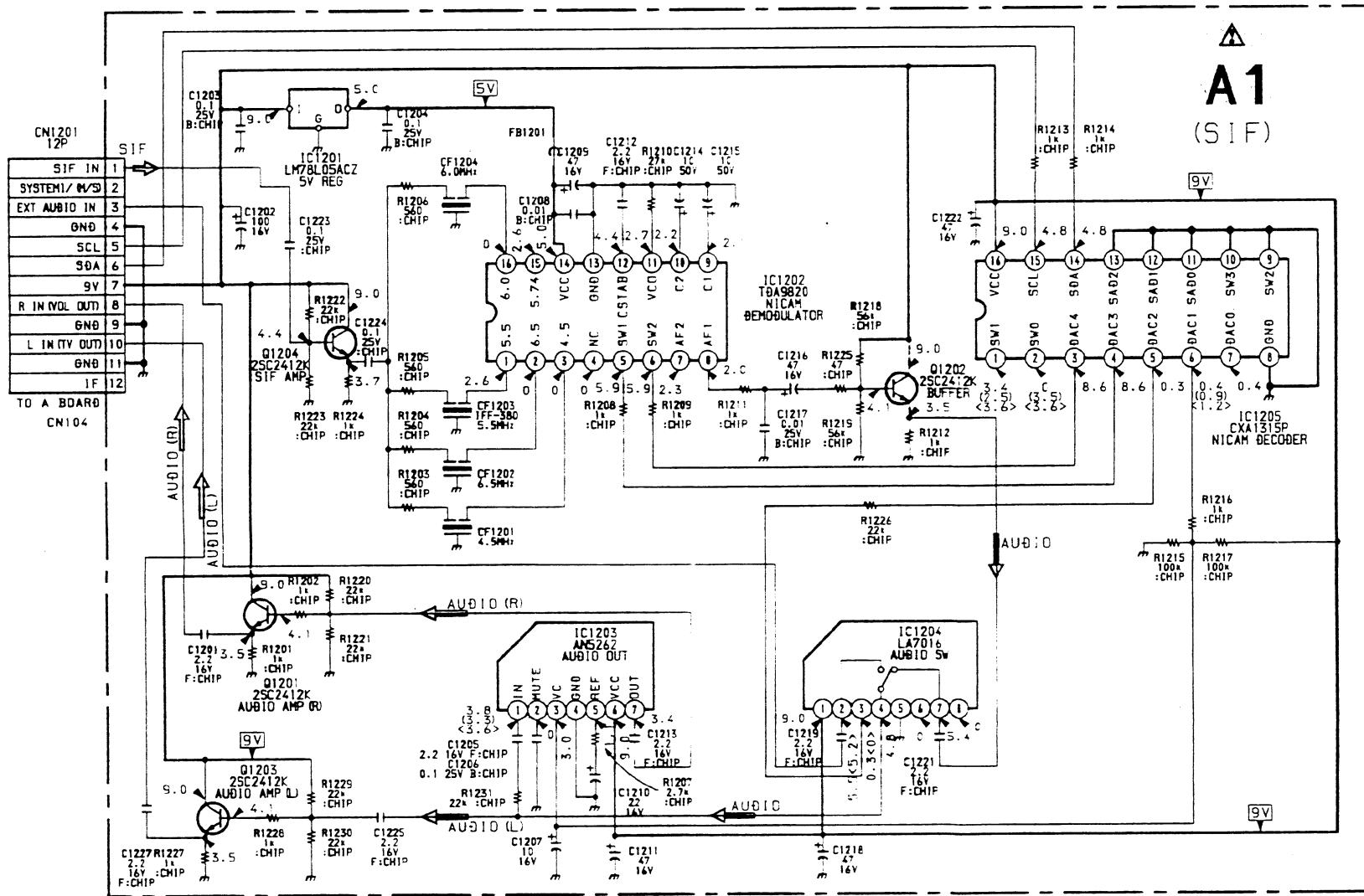
	KV-G25M1(ME)	KV-G25M1(HK)	KV-G25M1(RUSS)	KV-G25M11
CN106	NOT USED	NOT USED	NOT USED	12P : BTOB
CN601	TO POWER CORD	TO POWER CORD	TO F1 BOARD CN1602	TO POWER CORD
F601	T3.15A	T3.15A	NOT USED	T3.15A
FB801	1.1uH	1.1uH	1.9uH	1.1uH
JR103	NOT USED	NOT USED	NOT USED	0 : CHIP
JW032	NOT USED	NOT USED	15MM	NOT USED
JW132	NOT USED	NOT USED	15MM	NOT USED
Q302	NOT USED	NOT USED	NOT USED	2SC2412K
R020	NOT USED	NOT USED	NOT USED	100 : CHIP
R316	NOT USED	NOT USED	NOT USED	4.7K : CHIP
R317	NOT USED	NOT USED	NOT USED	1K : CHIP
R327	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R328	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R329	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R334	NOT USED	NOT USED	NOT USED	470 : CHIP
R552	NOT USED	NOT USED	220K : CHIP	220K : CHIP
R553	NOT USED	NOT USED	0 : CHIP	0 : CHIP
R570	NOT USED	NOT USED	0 : CHIP	0 : CHIP
R635	NOT USED	NOT USED	NOT USED	22 2W : RS

A BOARD IC351 TDA4665T



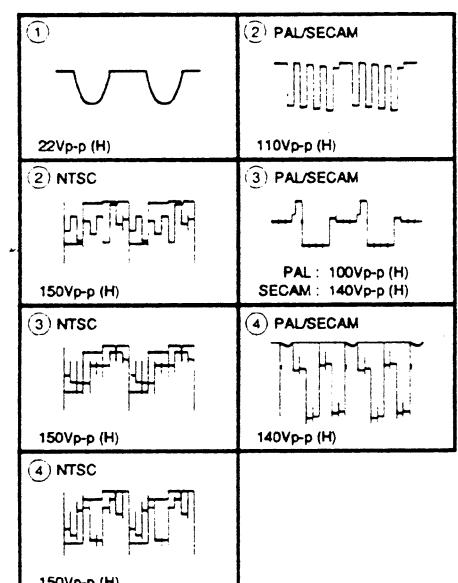
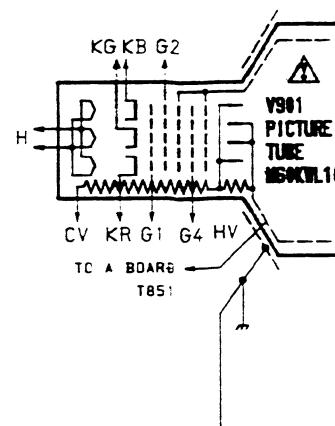
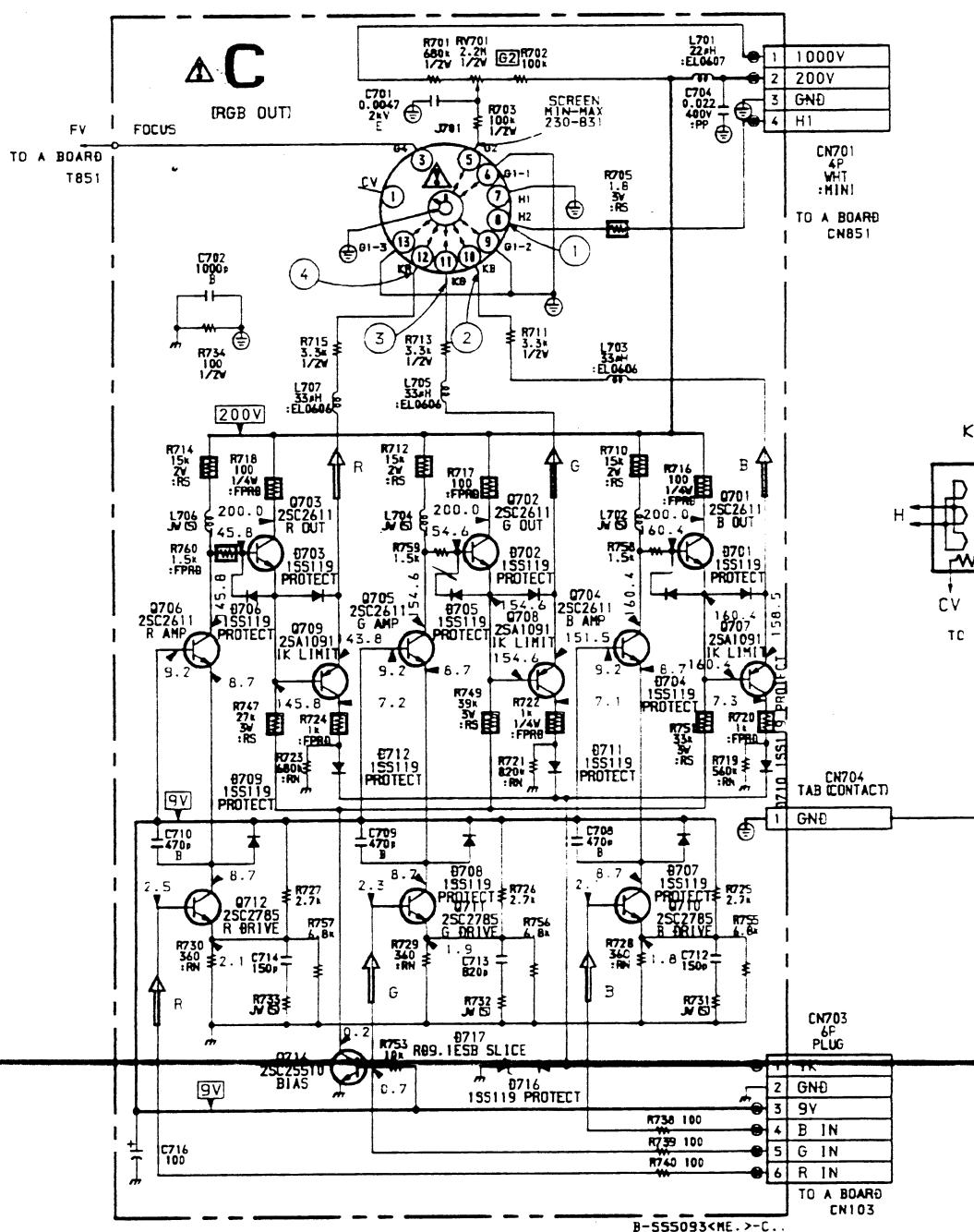
(2) Schematic Diagrams of A1, C, F1 and V1 Boards

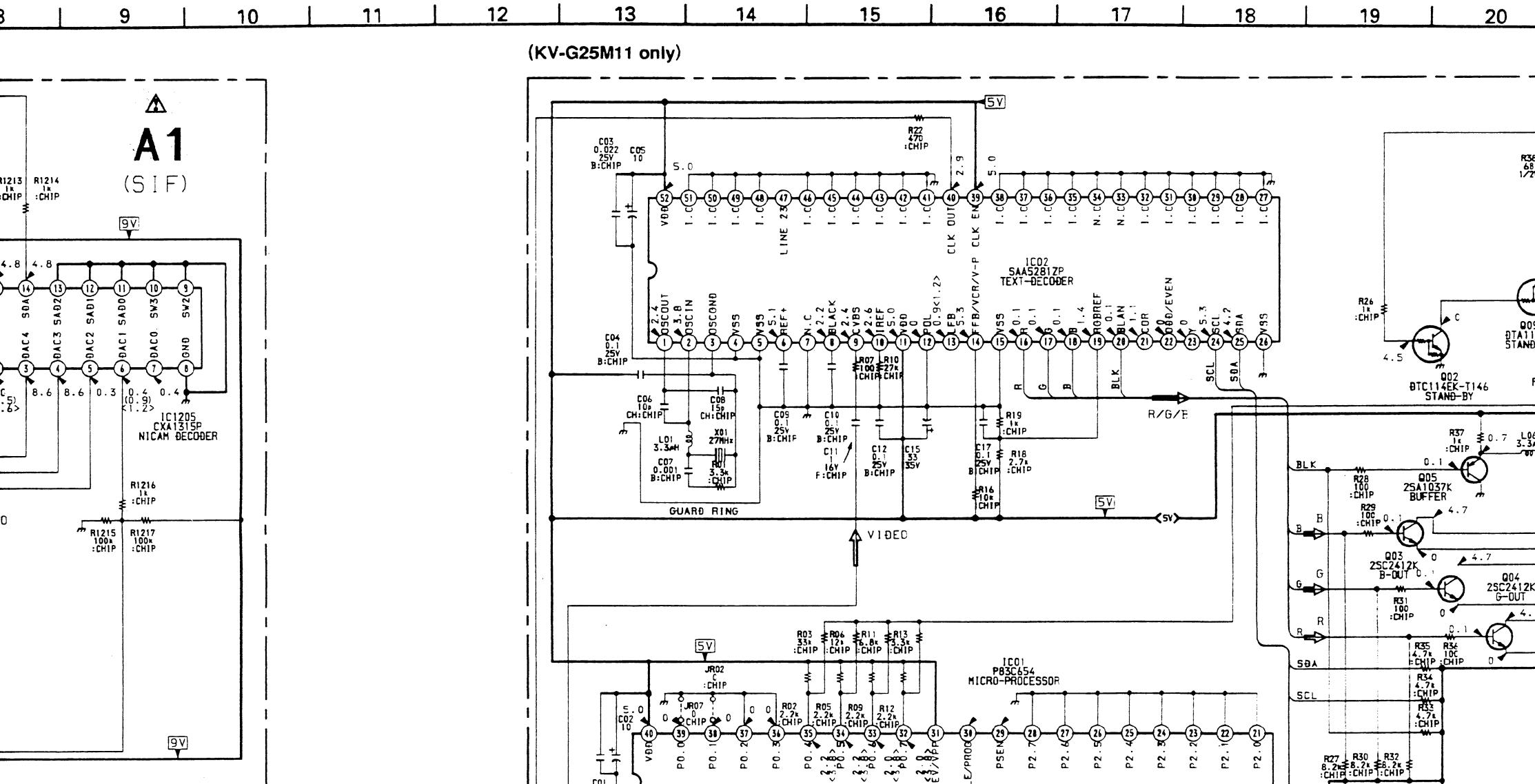
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11



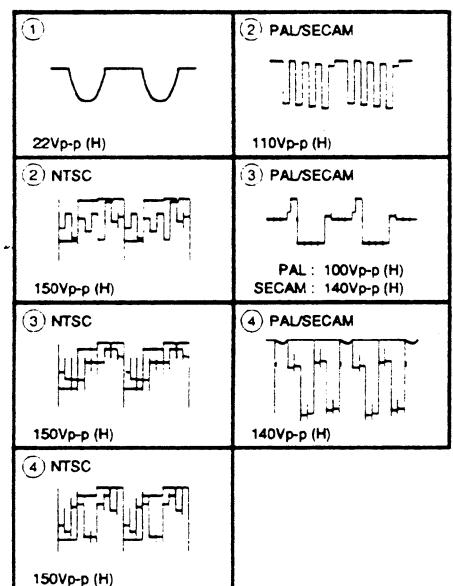
B-555093<ME. >-A1.

C BOARD WAVEFORMS

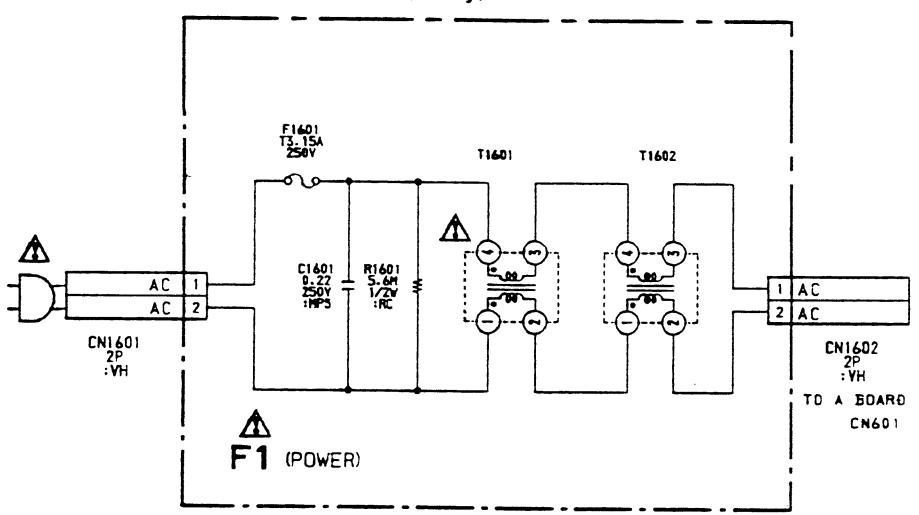




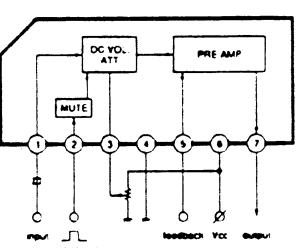
C BOARD WAVEFORMS

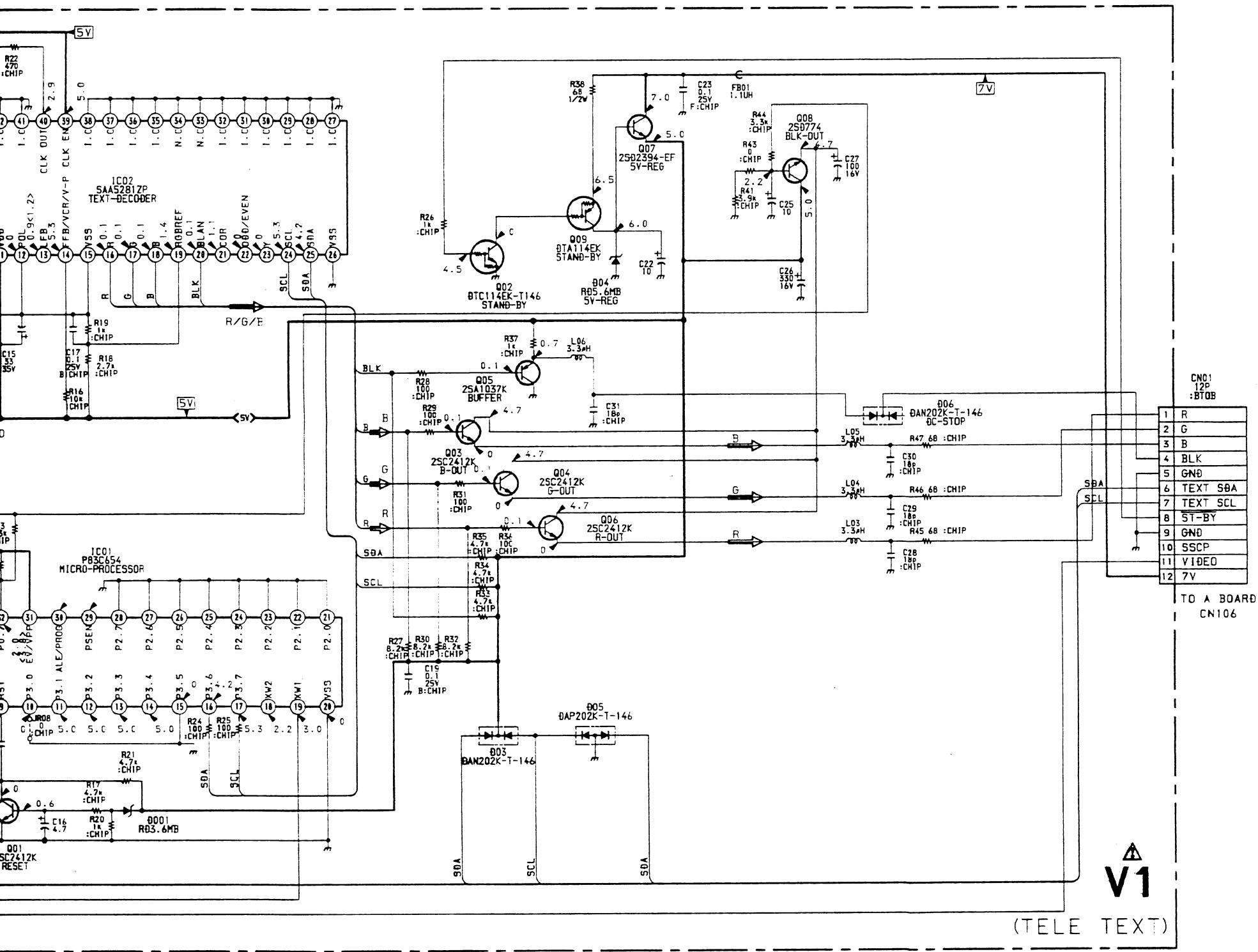


(KV-G25M1 (RUSS) only)



A1 BOARD IC1203 AN5262





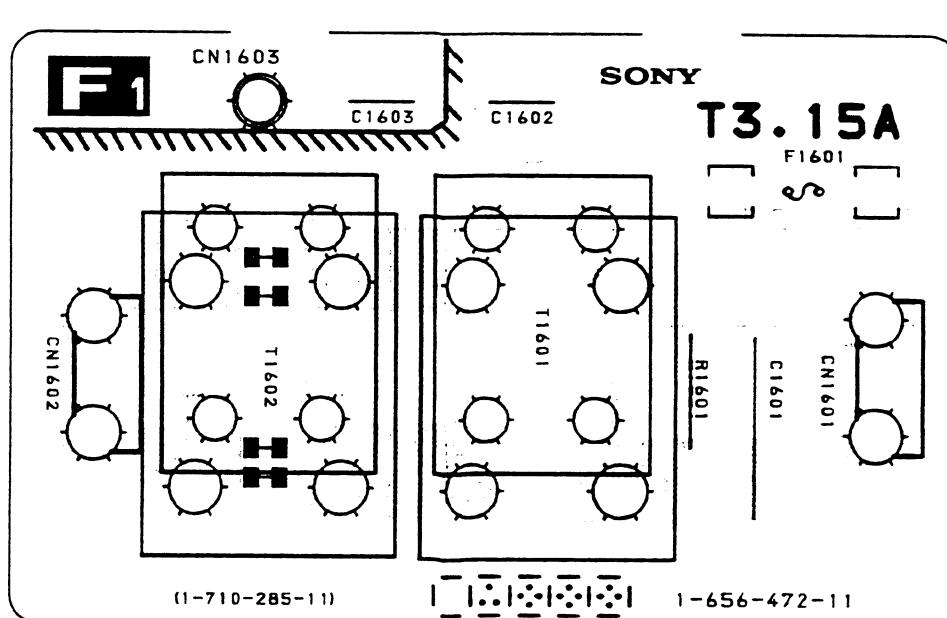
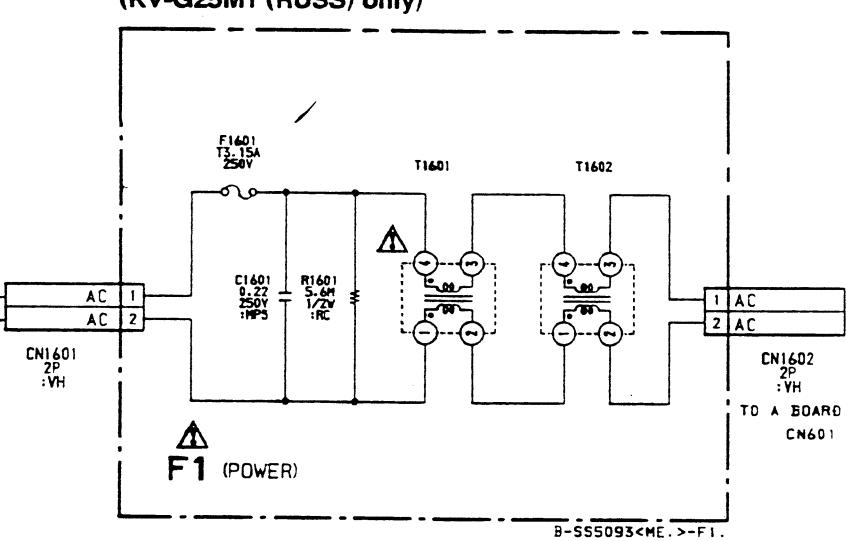
PRINTED WIRING BOARD

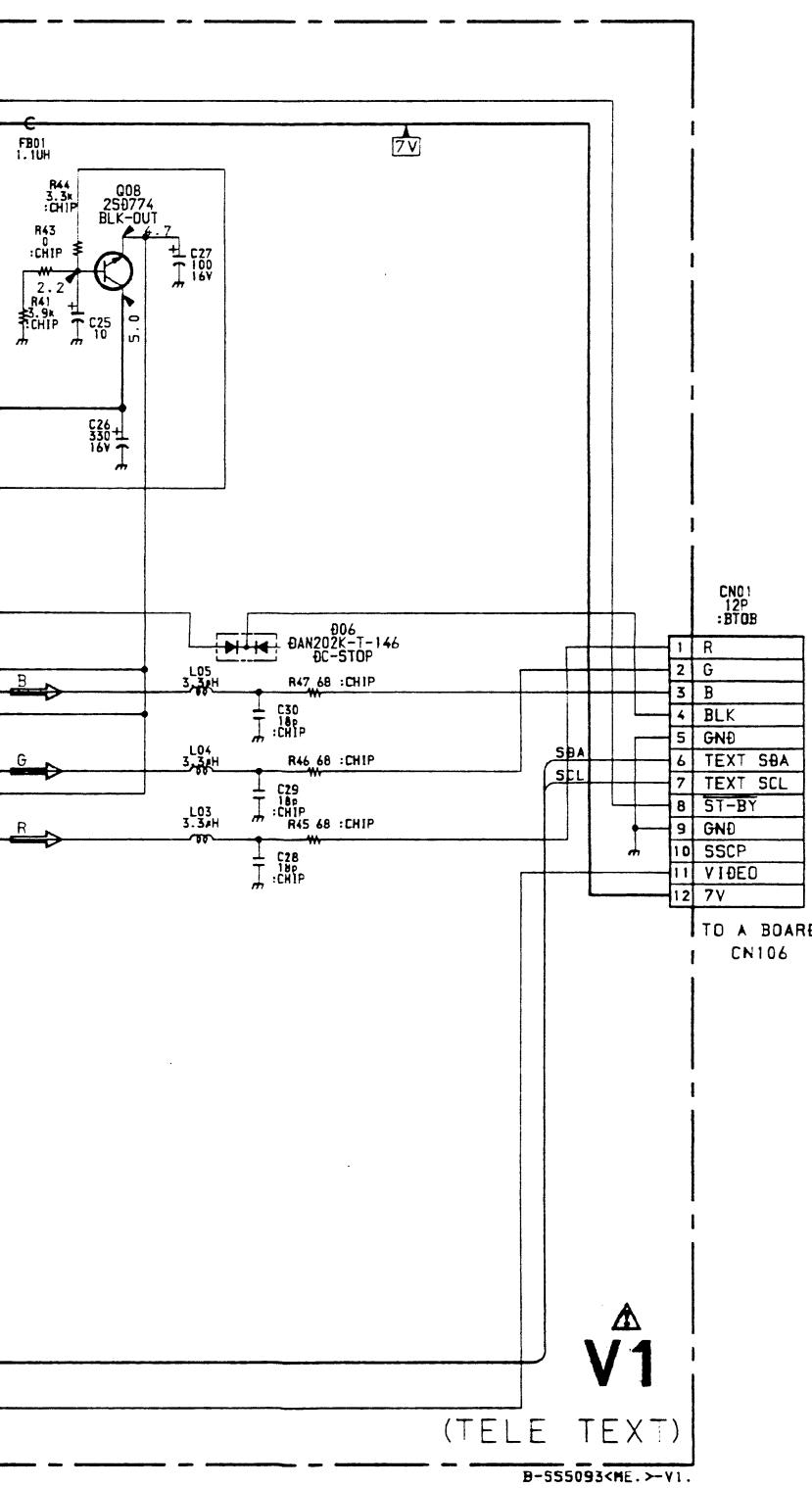
F1

[POWER]

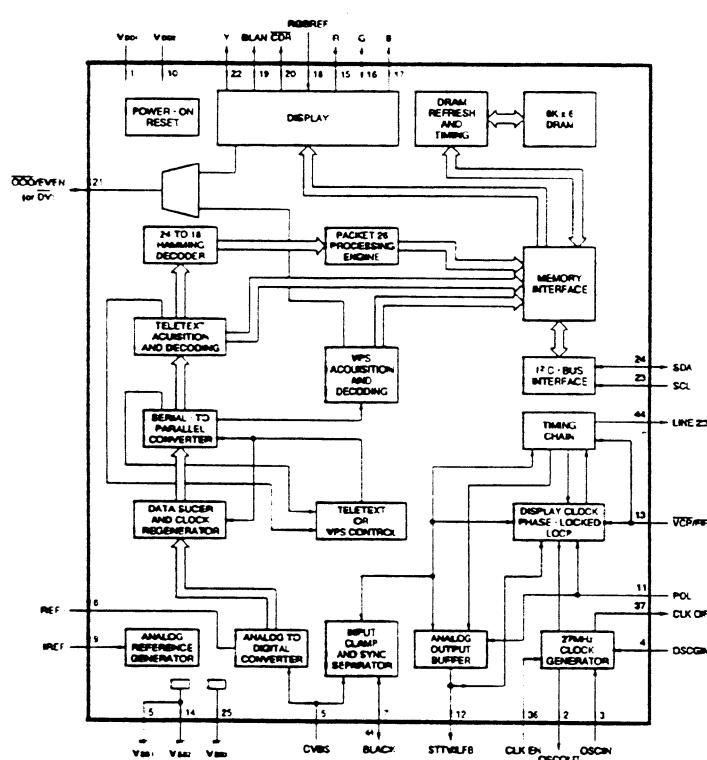
= E1 Board = (KV-G25M1 (BISS) only)

(KV-G25M1 (BUSS) only)





V1 BOARD IC02 SAA5281ZP

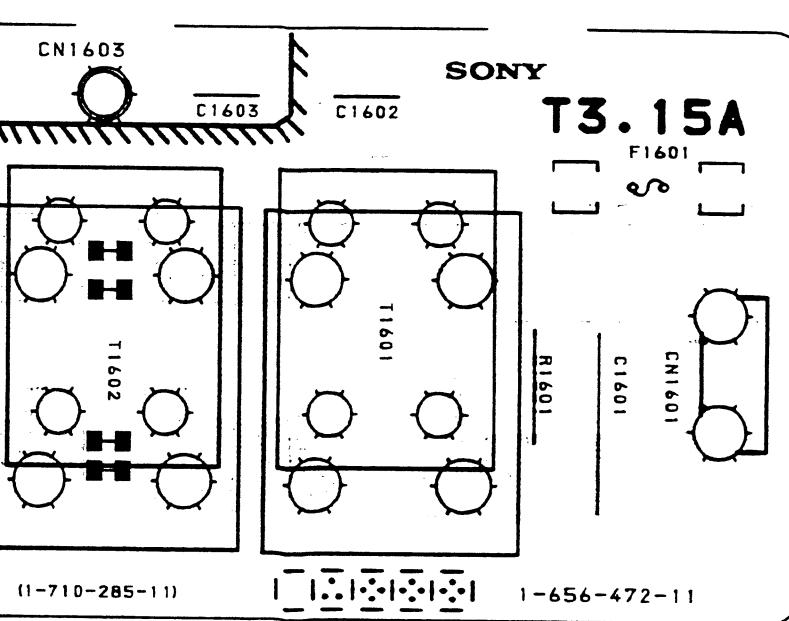


VIRING BOARD

F1

[POWER]

- (KV-G25M1 (RUSS) only)



PRINTED WIRING BOARDS

A1

[SIF]

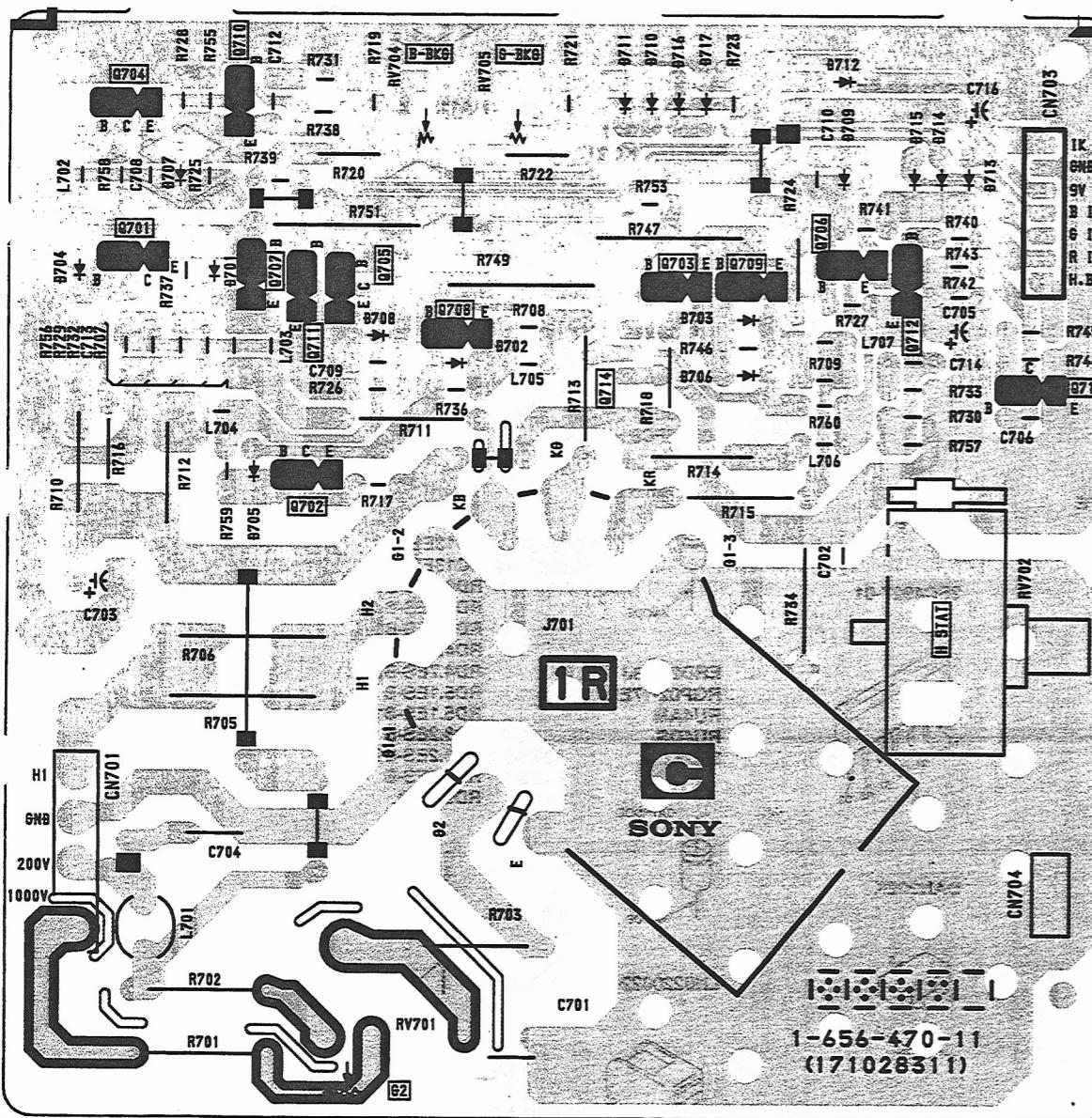
C

[RGB OUT]

V1

[TELE TEXT]

- C Board -



SECTION 7

EXPLODED VIEW

KV-T21MN8/T21MN81
RM-870

KV-T21MN8/T21MN81
RM-870

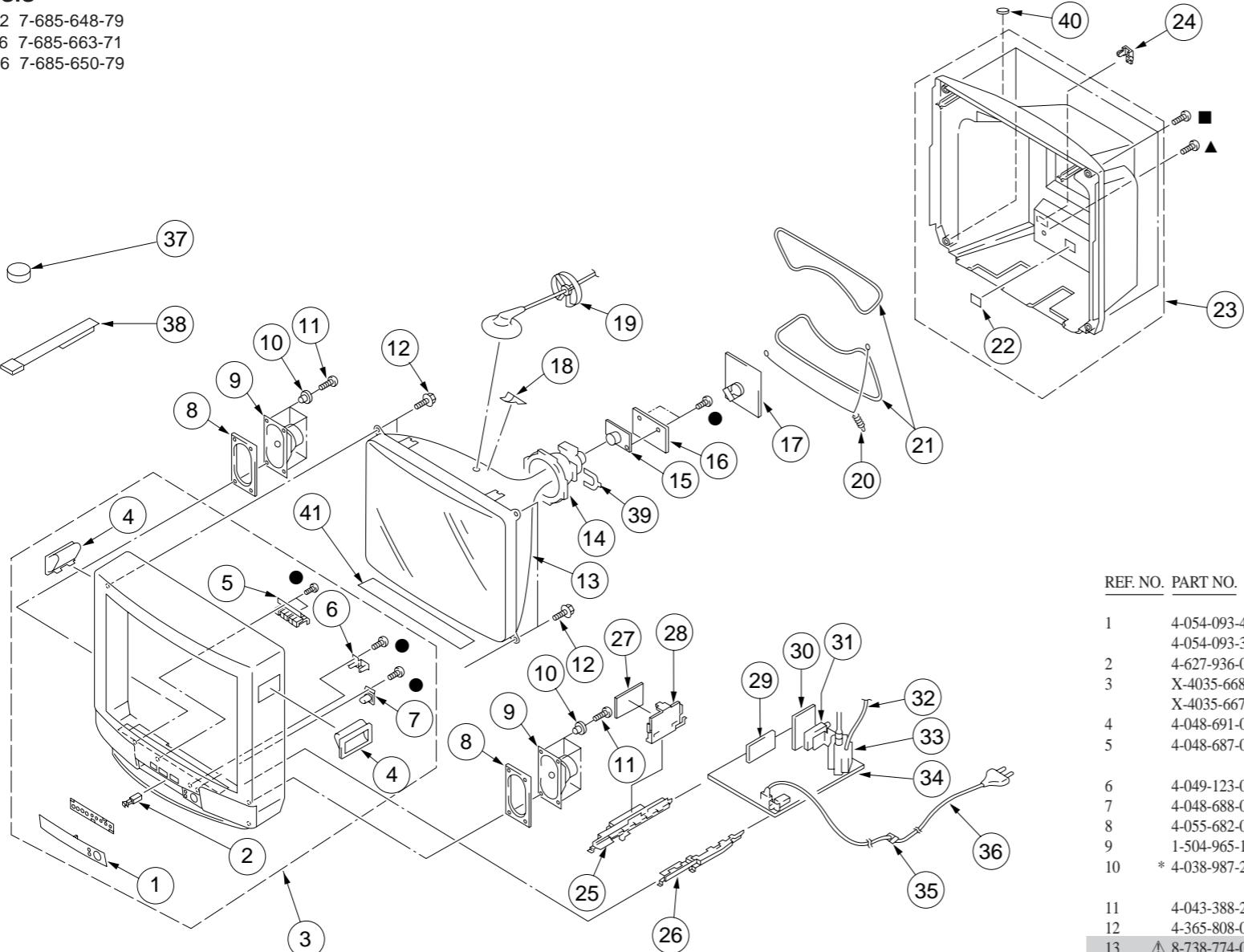
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark \triangle are critical for safety.
Replace only with part number specified.

7-1. CHASSIS

- : BVTP3 × 12 7-685-648-79
- : BVTP4 × 16 7-685-663-71
- ▲: BVTP3 × 16 7-685-650-79



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	4-054-093-41	DOOR, CONTROL (KV-T21MN8)		23	▲ X-4033-682-1	COVER ASSY, REAR	22
	4-054-093-31	DOOR, CONTROL (KV-T21MN81)		24	4-049-130-01	CLAMPER, CORD	
2	4-627-936-01	LOCK, MINIATURE SIDE		25	* 4-048-690-02	RAIL (L), GUIDE	
3	X-4035-668-1	BEZNET ASSY (KV-T21MN8)	1, 2, 4-7	26	* 4-048-689-02	RAIL (R), GUIDE	
	X-4035-667-1	BEZNET ASSY (KV-T21MN81)	1, 2, 4-7	27	* A-1241-325-A	F1 BOARD, COMPLETE (KV-T21MN8 ONLY)	
4	4-048-691-01	HANDLE		28	* 4-049-158-01	BRACKET, F1 PC BOARD (KV-T21MN8 ONLY)	
5	4-048-687-03	BUTTON, MULTI		29	* A-1347-117-A	V1 BOARD, COMPLETE (KV-T21MN81 ONLY)	
6	4-049-123-01	GUIDE, LIGHT		30	* A-1297-751-A	A3 BOARD, COMPLETE	
7	4-048-688-01	BUTTON, POWER		31	▲ 8-598-323-30	TUNER, VSS BT-AG401 (KV-T21MN8)	
8	4-055-682-01	CUSHION, SP			8-598-323-30	TUNER, VSS BT-AG401 (KV-T21MN81)	
9	1-504-965-11	SPEAKER (12X5CM)		32	▲ 1-900-700-05	LEAD ASSY, FOCUS	
10	* 4-038-987-21	CUSHION, SPEAKER		33	▲ 1-453-193-21	TRANSFORMER ASSY, FLYBACK (NX-1742/M3A)	
11	4-043-388-21	SCREW, STEP TAPPING		34	* A-1298-597-A	A BOARD, COMPLETE (KV-T21MN8)	
12	4-365-808-01	SCREW (5), TAPPING			* A-1298-596-A	A BOARD, COMPLETE (KV-T21MN81)	
13	▲ 8-738-774-05	PICTURE TUBE (A51JUH71X)		35	▲ 4-389-778-11	HOLDER, AC CORD	
14	8-451-280-33	DEFLECTION YOKE (Y21PXA2) (KV-T21MN8)		36	▲ 1-769-609-21	CORD, POWER (WITH CONNECTOR) (KV-T21MN8)	
	8-451-280-81	DEFLECTION YOKE (Y21PXA2-S3) (KV-T21MN81)			▲ 1-574-062-61	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-T21MN81)	
15	1-452-509-51	NECK ASSY, CRT (NA308)		37	1-452-032-00	MAGNET, DISC	
16	* A-1342-395-A	VM BOARD, BOARD		38	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
17	* A-1331-577-A	C BOARD, COMPLETE		39	1-452-277-00	MAGNET, BMC	
18	4-060-267-01	SPACER, DY		40	4-038-462-01	CAP, ANTENNA	
19	* 4-047-349-01	HOLDER, HV CABLE		41	4-372-556-31	SHEET, BLOTTING	
20	4-369-318-81	SPRING, TENSION					
21	▲ 1-409-942-11	COIL, DEMAGNETIZATION					
22	4-054-094-01	SHEET, BLIND					

SECTION 8

ELECTRICAL PARTS LIST

KV-T21MN8/T21MN81
RM-870

KV-T21MN8/T21MN81
RM-870

A

A

NOTE:

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All resistors are in ohms
- F : nonflammable

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- MF : μ F, PF : $\mu\mu$ F

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK						
* A-1298-597-A	A BOARD, COMPLETE (KV-T21MN8) *****			C049	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C239	1-126-933-11	ELECT	100MF	20%	16V		
* A-1298-596-A	A BOARD, COMPLETE (KV-T21MN81) *****			C050	1-124-903-11	ELECT	1MF	20%	50V	C239	1-104-665-11	ELECT	100MF	20%	16V		
1-533-223-11	CLIP, FUSE (KV-T21MN81 ONLY)			C051	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C240	1-137-188-51	FILM	0.15MF	5%	50V		
* 1-580-798-11	CONNECTOR PIN (DY) 6P			C052	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C241	1-124-557-11	ELECT	1000MF	20%	25V		
4-382-854-11	SCREW (M3X10), P, SW (+)			C053	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C242	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V		
<CAPACITOR>				C054	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C243	1-124-907-11	ELECT	10MF	20%	50V		
C001	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V	C055	1-126-941-11	ELECT	470MF	20%	16V	C244	1-124-557-11	ELECT	1000MF	20%	25V
C002	1-126-965-11	ELECT	22MF	20%	50V	C056	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C246	1-128-551-11	ELECT	22MF	20%	25V
C003	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C057	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	C247	1-126-942-61	ELECT	1000MF	20%	25V
C004	1-126-961-11	ELECT	2.2MF	20%	50V	C058	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C248	1-104-665-11	ELECT	100MF	20%	16V
C007	1-124-902-00	ELECT	0.47MF	20%	50V	C059	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C253	1-104-665-11	ELECT	100MF	20%	16V
C008	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C101	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C257	1-136-169-00	FILM	0.22MF	5%	50V
C009	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C102	1-126-941-11	ELECT	470MF	20%	16V	C258	1-136-169-00	FILM	0.22MF	5%	50V
C010	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	C074	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	C300	1-104-664-11	ELECT	47MF	20%	16V
C011	1-104-664-11	ELECT	47MF	20%	16V	C074	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	C304	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C012	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C103	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C013	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C104	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C306	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C014	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C105	1-104-665-11	ELECT	100MF	20%	16V	C306	1-216-295-91	SHORT	0 (KV-T21MN81)		
C015	1-101-884-00	CERAMIC	56PF	5%	50V	C106	1-124-907-11	ELECT	10MF	20%	50V	C307	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C016	1-101-884-00	CERAMIC	56PF	5%	50V	C107	1-126-942-61	ELECT	1000MF	20%	16V	C308	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C017	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C108	1-126-942-61	ELECT	1000MF	20%	16V	C309	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C018	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C109	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C310	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C019	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C110	1-136-165-00	FILM	0.1MF	5%	50V	C311	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C020	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C111	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C312	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C021	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C112	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C313	1-104-665-11	ELECT	100MF	20%	16V
C022	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C113	1-126-965-11	ELECT	22MF	20%	50V	C314	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C023	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C114	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C315	1-165-320-11	CERAMIC CHIP	0.47MF	10%	16V
C024	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C115	1-163-093-00	CERAMIC CHIP	10PF	5%	50V	C316	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C025	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C116	1-136-165-00	FILM	0.1MF	5%	50V	C317	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C026	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C117	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C318	1-165-320-11	CERAMIC CHIP	0.47MF	10%	16V
C027	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C118	1-126-965-11	ELECT	22MF	20%	50V	C319	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C028	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C119	1-163-059-00	CERAMIC CHIP	0.01MF	50V	C320	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C029	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C120	1-130-493-00	MYLAR	0.068MF	5%	50V	C321	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C030	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C121	1-130-493-00	MYLAR	0.068MF	5%	50V	C322	1-216-295-91	SHORT	0		
C031	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C122	1-104-665-11	ELECT	100MF	20%	16V	C323	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C032	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C123	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C324	1-115-565-11	CERAMIC CHIP	2.2MF	10%	10V
C033	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C124	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C325	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C034	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C125	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C326	1-163-095-00	CERAMIC CHIP	12PF	5%	50V
C035	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C126	1-163-077-00	CERAMIC CHIP</									

The components identified by shading and mark Δ are critical for safety.
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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
C606	1-161-830-00	CERAMIC	0.0047MF 99% 500V	C1202	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V		
C607	1-161-830-00	CERAMIC	0.0047MF 99% 500V	C1203	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V		
C608	1-104-332-11	CERAMIC	470PF 10% 2KV	C1204	1-126-933-11	ELECT (KV-T21MN8)	100MF 20% 16V		
C609	1-123-024-21	ELECT	33MF 160V	C1204	1-104-665-11	ELECT (KV-T21MN81)	100MF 20% 16V		
C610	1-126-943-11	ELECT	2200MF 20% 25V	C1205	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V		
C611	Δ 1-113-900-51	CERAMIC	470PF 10% 250V	C1206	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V		
C612	1-102-228-00	CERAMIC	470PF 10% 500V	C1210	1-126-933-11	ELECT (KV-T21MN8)	100MF 20% 16V		
C613	1-102-824-00	CERAMIC	470PF 5% 50V	C1210	1-104-665-11	ELECT (KV-T21MN81)	100MF 20% 16V		
C614	1-126-943-11	ELECT	2200MF 20% 25V	C1212	1-126-960-11	ELECT	1MF 20% 50V		
C616	1-102-228-00	CERAMIC	470PF 10% 500V	C1213	1-126-960-11	ELECT	1MF 20% 50V		
C618	1-163-133-00	CERAMIC CHIP	470PF 5% 50V	C1214	1-126-964-11	ELECT	10MF 20% 50V		
C619	1-162-116-00	CERAMIC	680PF 10% 2KV	C1215	1-163-123-00	CERAMIC CHIP	180PF 5% 50V		
C621	Δ 1-104-705-51	FILM	0.1MF 20% 250V	C1216	1-164-005-11	CERAMIC CHIP	0.47MF 25V		
C622	1-106-383-00	MYLAR	0.047MF 10% 200V	C1217	1-126-933-11	ELECT (KV-T21MN8)	100MF 20% 16V		
C623	1-104-666-11	ELECT	220MF 20% 16V	C1217	1-104-665-11	ELECT (KV-T21MN81)	100MF 20% 16V		
C624	1-126-942-61	ELECT	1000MF 20% 16V	C1218	1-163-123-00	CERAMIC CHIP	180PF 5% 50V		
C625	1-102-074-00	CERAMIC	0.001MF 10% 50V	C1219	1-126-933-11	ELECT	100MF 20% 16V		
C627	1-162-116-00	CERAMIC	680PF 10% 2KV	C1221	1-164-005-11	CERAMIC CHIP	0.47MF 25V		
C628	1-163-133-00	CERAMIC CHIP	470PF 5% 50V	C1222	1-164-005-11	CERAMIC CHIP	0.47MF 25V		
C630	Δ 1-113-900-51	CERAMIC	470PF 10% 250V	C1223	1-164-346-11	CERAMIC CHIP	1MF 16V		
C631	1-161-830-00	CERAMIC	0.0047MF 99% 500V	C1224	1-216-295-91	SHORT	0		
C632	Δ 1-113-900-51	CERAMIC	470PF 10% 250V	C1225	1-164-005-11	CERAMIC CHIP	0.47MF 25V		
C633	1-161-754-00	CERAMIC	0.001MF 10% 3KV	C1226	1-126-934-11	ELECT	220MF 20% 16V		
C634	1-163-133-00	CERAMIC CHIP	470PF 5% 50V	C1228	1-164-346-11	CERAMIC CHIP	1MF 16V		
C801	1-123-024-21	ELECT	33MF 160V	C1513	1-124-122-11	ELECT	100MF 20% 50V		
C802	1-107-364-11	MYLAR	0.01MF 10% 200V	<CONNECTOR>					
C804	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V	CN101	* 1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P			
C805	1-102-244-00	CERAMIC	220PF 10% 500V	CN102	* 1-564-508-11	PLUG, CONNECTOR 5P			
C806	1-124-903-11	ELECT	1MF 20% 50V	CN103	* 1-564-509-11	PLUG, CONNECTOR 6P			
C807	1-136-569-11	FILM	1.2MF 5% 200V	CN106	* 1-770-747-11	CONNECTOR, BOARD TO BOARD 12P (KV-T21MN81 ONLY)			
C808	1-129-746-00	FILM	0.039MF 5% 400V	CN111	* 1-564-505-11	PLUG, CONNECTOR 2P			
C809	1-162-115-00	CERAMIC	330PF 10% 2KV	CN251	* 1-564-507-11	PLUG, CONNECTOR 4P			
C810	1-106-365-00	MYLAR	0.0082MF 99% 200V	CN601	* 1-580-843-11	PIN, CONNECTOR (POWER)			
C811	1-162-318-11	CERAMIC	0.001MF 10% 500V	CN602	* 1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P			
C812	1-136-081-00	FILM	0.012MF 3% 2KV	CN604	1-695-915-11	TAB (CONTACT)			
C816	1-107-636-11	ELECT	10MF 20% 160V	CN605	1-695-915-11	TAB (CONTACT)			
C820	1-161-754-00	CERAMIC	0.001MF 10% 2KV	CN606	1-695-915-11	TAB (CONTACT)			
C821	1-104-999-11	MYLAR	0.1MF 10% 200V	CN607	1-695-915-11	TAB (CONTACT)			
C822	1-136-111-00	FILM	1MF 5% 200V	CN609	* 1-564-506-11	PLUG, CONNECTOR 3P			
C823	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	CN612	1-695-915-11	TAB (CONTACT)			
C825	1-107-364-11	MYLAR	0.01MF 10% 200V	CN613	1-695-915-11	TAB (CONTACT)			
C850	1-124-480-11	ELECT	470MF 20% 25V	CN614	1-695-915-11	TAB (CONTACT)			
C852	1-104-574-11	CERAMIC	0.0047MF 10% 2KV	CN615	1-695-915-11	TAB (CONTACT)			
C853	1-162-318-11	CERAMIC	0.001MF 10% 500V	CN851	* 1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P			
C854	1-124-480-11	ELECT	470MF 20% 25V	<TRIMMER>					
C856	1-162-318-11	CERAMIC	0.001MF 10% 500V	CT45	1-579-690-11	TRAP, CERAMIC			
C857	1-136-159-00	FILM	0.033MF 5% 50V	CT55	1-404-801-11	TRAP, CERAMIC			
C860	1-102-228-00	CERAMIC	470PF 10% 500V	CT60	1-409-429-11	TRAP, CERAMIC			
C861	1-107-654-11	ELECT	33MF 20% 250V	CT65	1-409-327-00	TRAP, CERAMIC (6.5MHZ)			
C875	1-128-562-11	ELECT	47MF 20% 100V						
C876	1-107-369-11	MYLAR	0.068MF 10% 100V						
C891	1-163-007-11	CERAMIC CHIP	680PF 10% 50V						
C898	1-137-150-11	MYLAR	0.01MF 10% 100V						
C901	1-163-133-00	CERAMIC CHIP	470PF 5% 50V						
C902	1-163-133-00	CERAMIC CHIP	470PF 5% 50V						
C1201	1-126-933-11	ELECT (KV-T21MN8)	100MF 20% 16V						
C1201	1-104-665-11	ELECT (KV-T21MN81)	100MF 20% 16V						

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
<DIODE>											
D001	8-719-109-81	DIODE RD4.7ESB2		FB101	1-410-397-21	FERRITE	1.1UH				
D002	8-719-911-19	DIODE 1SS119-25		FB102	1-410-397-21	FERRITE	1.1UH				
D003	8-719-041-97	DIODE MA113-(TX)		FB103	1-410-397-21	FERRITE	1.1UH				
D005	8-719-109-84	DIODE RD5.1ESB1		FB251	1-410-397-21	FERRITE	1.1UH				
D008	8-719-109-89	DIODE RD5.6ESB2		FB601	1-410-397-21	FERRITE	1.1UH				
D103	8-719-914-42	DIODE DA204K		FB603	1-410-397-21	FERRITE	1.1UH				
D251	8-719-911-19	DIODE 1SS119-25		FB610	1-410-397-21	FERRITE	1.1UH				
D252	8-719-914-42	DIODE DA204K		FB612	1-410-397-21	FERRITE	1.1UH				
D301	8-719-041-97	DIODE MA113-(TX)		FB801	1-410-397-21	FERRITE	1.1UH				
D305	8-719-041-97	DIODE MA113-(TX)		<FERRITE BEAD>							
D306	8-719-911-19	DIODE 1SS119-25		<IC>							
D307	8-719-911-19	DIODE 1SS119-25		IC001	8-752-893-68	IC CXP85224A-062S					
D308	8-719-109-54	DIODE RD2.2ESB2		IC002	8-759-805-37	IC L78LR05D-MA					
D310	8-719-041-97	DIODE MA113-(TX)		IC003	8-759-370-33	IC ST24C04FB6					
D311	8-719-109-54	DIODE RD2.2ESB2		IC004	8-742-041-12	HYB IC SBX1981-11(12)					
D312	8-719-110-08	DIODE RD8.2ESB2		IC201	8-759-090-21	IC TDA8424					
D315	8-719-121-24	DIODE RD9.1ESL		IC202	8-759-708-12	IC NJM78L12A					
D351	8-719-908-03	DIODE GP08D		IC203	8-759-339-60	IC TA8248K					
D399	8-719-977-22	DIODE DTZ9.1		IC300	8-759-365-26	IC TDA8375A					
D401	8-719-421-40	DIODE MA77		IC351	8-759-288-85	IC TDA4665T-T					
D402	8-719-911-19	DIODE 1SS119-25		IC354	8-759-251-56	IC TDA8395T					
D403	8-719-911-19	DIODE 1SS119-25		IC401	8-759-800-65	IC LA7910					
D513	8-719-109-84	DIODE RD5.1ESB1		IC521	8-759-054-12	IC PQ09RA1					
D551	8-719-908-03	DIODE GP08D		IC551	8-759-801-98	IC LA7830					
D561	8-719-911-19	DIODE 1SS119-25		IC601	8-749-014-00	IC STR-S6707N					
D591	8-719-911-19	DIODE 1SS119-25		IC602	8-749-921-89	IC SE115N					
D601	8-719-052-84	DIODE LN4SB60		IC603 Δ	8-749-010-64	PHOTO COUPLER PC123F2					
D601	8-719-510-53	DIODE D4SB60L		IC801	8-759-100-96	IC UPC4558G2					
D604	8-719-301-64	DIODE RU4DS		IC1201	8-759-157-40	IC UPC574J					
D605	8-719-067-18	DIODE RN4Z		IC1210	8-759-100-96	IC UPC4558G2					
D606	8-719-510-73	DIODE S3L20UF4		IC1211	8-759-711-23	IC NJM2234L					
D607	8-719-510-26	DIODE D1NL20		IC1212	8-759-711-23	IC NJM2234L					
D609	8-719-510-26	DIODE D1NL20		<JACK>							
D610	8-719-510-26	DIODE D1NL20		J251	1-770-786-11	JACK					
D611	8-719-510-26	DIODE D1NL20		J1201	1-770-661-11	JACK BLOCK, PIN 6P					
D801	8-719-945-80	DIODE ERC06-15S		J1202	1-695-585-11	JACK BLOCK, PIN (L TYPE) 3P					
D802	8-719-900-26	DIODE ERD29-08J		<CHIP CONDUCTOR>							
D851	8-719-302-43	DIODE EL1Z		JR050	1-216-295-91	SHORT	0				
D852	8-719-028-72	DIODE RGP02-17EL-6433		JR052	1-216-295-91	SHORT	0				
D853	8-719-302-43	DIODE EL1Z		JR101	1-216-295-91	SHORT	0				
D855	8-719-302-43	DIODE EL1Z		JR103	1-216-295-91	SHORT	0 (KV-T21MN81 ONLY)				
D857	8-719-908-03	DIODE GP08D		JR108	1-216-295-91	SHORT	0				
D858	8-719-908-03	DIODE GP08D		<COIL>							
D860	8-719-911-19	DIODE 1SS119-25		JR113	1-216-295-91	SHORT	0				
D901	8-719-054-60	DIODE LNK0220022G		JR115	1-216-295-91	SHORT	0				
D1201	8-719-121-24	DIODE RD9.1ESL		JR116	1-216-295-91	SHORT	0				
D1202	8-719-121-24	DIODE RD9.1ESL		JR117	1-216-295-91	SHORT	0				
D1203	8-719-121-24	DIODE RD9.1ESL		L001	1-408-397-00	INDUCTOR	1UH				
D1207	8-719-121-24	DIODE RD9.1ESL		L002	1-410-509-11	INDUCTOR	10UH				
D1208	8-719-121-24	DIODE RD9.1ESL		L003	1-408-605-31	INDUCTOR	15UH				
D1209	8-719-121-24	DIODE RD9.1ESL		L101	1-410-470-11	INDUCTOR	10UH				
D1504	8-719-911-19	DIODE 1SS119-25		L301	1-408-598-31	INDUCTOR	3.9UH				
D1505	8-719-109-81	DIODE RD4.7ESB2		<COIL>							
<FUSE>											
F601 Δ	1-532-237-11	FUSE, TIME-LAG (BET) 3.15A/250V (KV-T21MN81 ONLY)									

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REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
L401	1-410-498-11	INDUCTOR	1.2UH		Q1207	8-729-422-27	TRANSISTOR 2SD601A-Q		
L402	1-410-510-11	INDUCTOR	12UH		Q1208	8-729-422-27	TRANSISTOR 2SD601A-Q		
L403	1-410-510-11	INDUCTOR	12UH		Q1264	8-729-424-67	TRANSISTOR UN2216		
L404	1-410-508-11	INDUCTOR	8.2UH		Q1265	8-729-424-67	TRANSISTOR UN2216		
L405	1-410-508-11	INDUCTOR	8.2UH		Q1513	8-729-422-27	TRANSISTOR 2SD601A-Q		
L406	1-410-507-11	INDUCTOR	6.8UH						
L407	1-410-511-11	INDUCTOR	15UH						
L802	1-412-527-11	INDUCTOR	15UH						
L804	1-459-075-00	COIL, CORE							
L805	1-459-769-13	COIL, HORIZONTAL LINEARITY							
L807	1-459-390-00	INDUCTOR	0UH		R001	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
L808	1-412-553-11	INDUCTOR	3.3MMH		R002	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
L821	1-459-111-00	INDUCTOR	0UH		R003	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
L850	1-408-947-00	INDUCTOR	2.2MMH		R004	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
					R007	1-216-073-00	RES,CHIP	10K	5% 1/10W
					R008	1-216-049-91	RES,CHIP	1K	5% 1/10W
					R009	1-216-049-91	RES,CHIP	1K	5% 1/10W
					R010	1-216-049-91	RES,CHIP	1K	5% 1/10W
					R012	1-216-017-91	RES,CHIP	47	5% 1/10W
					R013	1-216-049-91	RES,CHIP	1K	5% 1/10W
Q030	8-729-422-27	TRANSISTOR 2SD601A-Q			R014	1-216-049-91	RES,CHIP	1K	5% 1/10W
Q108	8-729-422-27	TRANSISTOR 2SD601A-Q			R015	1-216-043-91	RES,CHIP	560	5% 1/10W
Q109	8-729-422-27	TRANSISTOR 2SD601A-Q			R016	1-216-049-91	RES,CHIP	1K	5% 1/10W
Q110	8-729-422-27	TRANSISTOR 2SD601A-Q			R017	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
Q202	8-729-216-22	TRANSISTOR 2SA1162-G			R018	1-216-033-00	RES,CHIP	220	5% 1/10W
Q207	8-729-216-22	TRANSISTOR 2SA1162-G			R019	1-216-101-00	RES,CHIP	150K	5% 1/10W
Q208	8-729-421-19	TRANSISTOR UN2213			R020	1-216-025-91	RES,CHIP	100	5% 1/10W
Q209	8-729-424-67	TRANSISTOR UN2216							(KV-T21MN81 ONLY)
Q210	8-729-424-67	TRANSISTOR UN2216			R021	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
Q301	8-729-421-22	TRANSISTOR UN2211			R025	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
Q302	8-729-422-27	TRANSISTOR 2SD601A-Q			R026	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
Q303	8-729-422-27	TRANSISTOR 2SD601A-Q			R027	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
Q401	8-729-422-27	TRANSISTOR 2SD601A-Q			R028	1-216-025-91	RES,CHIP	100	5% 1/10W
Q402	8-729-922-66	TRANSISTOR 2SC2410SN			R029	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
Q403	8-729-424-67	TRANSISTOR UN2216			R031	1-216-049-91	RES,CHIP	1K	5% 1/10W
Q404	8-729-424-67	TRANSISTOR UN2216			R032	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
Q405	8-729-216-22	TRANSISTOR 2SA1162-G			R033	1-216-049-91	RES,CHIP	1K	5% 1/10W
Q406	8-729-216-22	TRANSISTOR 2SA1162-G			R035	1-216-049-91	RES,CHIP	1K	5% 1/10W
Q407	8-729-216-22	TRANSISTOR 2SA1162-G			R036	1-216-049-91	RES,CHIP	1K	5% 1/10W
Q408	8-729-422-27	TRANSISTOR 2SD601A-Q			R037	1-216-049-91	RES,CHIP	1K	5% 1/10W
Q409	8-729-216-22	TRANSISTOR 2SA1162-G			R038	1-216-033-00	RES,CHIP	220	5% 1/10W
Q410	8-729-216-22	TRANSISTOR 2SA1162-G			R040	1-216-033-00	RES,CHIP	220	5% 1/10W
Q411	8-729-422-27	TRANSISTOR 2SD601A-Q			R041	1-216-025-91	RES,CHIP	100	5% 1/10W
Q412	8-729-422-27	TRANSISTOR 2SD601A-Q			R042	1-216-039-00	RES,CHIP	390	5% 1/10W
Q413	8-729-424-67	TRANSISTOR UN2216			R045	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
Q414	8-729-422-27	TRANSISTOR 2SD601A-Q			R047	1-216-025-91	RES,CHIP	100	5% 1/10W
Q415	8-729-424-67	TRANSISTOR UN2216			R048	1-216-025-91	RES,CHIP	100	5% 1/10W
Q416	8-729-422-27	TRANSISTOR 2SD601A-Q			R053	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
Q417	8-729-424-67	TRANSISTOR UN2216			R054	1-216-073-00	RES,CHIP	10K	5% 1/10W
Q418	8-729-424-67	TRANSISTOR UN2216			R057	1-216-049-91	RES,CHIP	1K	5% 1/10W
Q561	8-729-200-17	TRANSISTOR 2SA1091-O			R058	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
Q801	8-729-140-50	TRANSISTOR 2SC3209LK			R060	1-216-037-00	RES,CHIP	330	5% 1/10W
Q802	8-729-821-87	TRANSISTOR 2SD1878-CA			R061	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
Q821	8-729-209-15	TRANSISTOR 2SD2012			R062	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
Q902	8-729-421-19	TRANSISTOR UN2213			R063	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
Q903	8-729-421-19	TRANSISTOR UN2213			R065	1-216-033-00	RES,CHIP	220	5% 1/10W
Q1201	8-729-422-27	TRANSISTOR 2SD601A-Q			R066	1-216-033-00	RES,CHIP	220	5% 1/10W
Q1202	8-729-422-27	TRANSISTOR 2SD601A-Q			R068	1-216-025-91	RES,CHIP	100	5% 1/10W
Q1203	8-729-422-27	TRANSISTOR 2SD601A-Q			R071	1-216-037-00	RES,CHIP	330	5% 1/10W
Q1204	8-729-216-22	TRANSISTOR 2SA1162-G			R076	1-216-025-91	RES,CHIP	100	5% 1/10W
Q1205	8-729-216-22	TRANSISTOR 2SA1162-G			R077	1-216-025-91	RES,CHIP	100	5% 1/10W
Q1206	8-729-216-22	TRANSISTOR 2SA1162-G							

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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK				
R090	1-216-073-00	RES,CHIP	10K	5%	1/10W	R327	1-216-029-00	RES,CHIP	150	5% 1/10W				
R101	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R328	1-216-295-91	SHORT	0 (KV-T21MN8)					
R102	1-216-049-91	RES,CHIP	1K	5%	1/10W	R328	1-216-029-00	RES,CHIP	150	5% 1/10W				
R113	1-216-081-00	RES,CHIP	22K	5%	1/10W	R329	1-216-295-91	SHORT	0 (KV-T21MN8)					
R114	1-216-041-00	RES,CHIP	470	5%	1/10W	R329	1-216-029-00	RES,CHIP	150	5% 1/10W				
R115	1-216-081-00	RES,CHIP	22K	5%	1/10W	R330	1-216-043-91	RES,CHIP	560	5% 1/10W				
R116	1-216-081-00	RES,CHIP	22K	5%	1/10W	R331	1-216-117-00	RES,CHIP	680K	5% 1/10W				
R117	1-216-081-00	RES,CHIP	22K	5%	1/10W	R332	1-216-033-00	RES,CHIP	220	5% 1/10W				
R118	1-216-081-00	RES,CHIP	22K	5%	1/10W	R334	1-216-041-00	RES,CHIP	470	5% 1/10W				
R119	1-216-055-00	RES,CHIP	1.8K	5%	1/10W	R335	1-216-073-00	RES,CHIP	10K	5% 1/10W				
R120	1-216-109-00	RES,CHIP	330K	5%	1/10W	R336	1-216-057-00	RES,CHIP	2.2K	5% 1/10W				
R131	1-216-464-11	METAL OXIDE	18K	5%	2W F	R338	1-216-295-91	SHORT	0					
R180	1-216-033-00	RES,CHIP	220	5%	1/10W	R339	1-216-036-00	RES,CHIP	300	5% 1/10W				
R181	1-216-033-00	RES,CHIP	220	5%	1/10W	R203	1-216-033-00	RES,CHIP	220	(KV-T21MN8 ONLY)				
R182	1-216-033-00	RES,CHIP	220	5%	1/10W	R204	1-216-033-00	RES,CHIP	270	5% 1/10W				
R240	1-216-035-00	RES,CHIP	270	5%	1/10W	R240	1-216-035-00	RES,CHIP	270	(KV-T21MN8 ONLY)				
R242	1-216-035-00	RES,CHIP	270	5%	1/10W	R242	1-216-049-91	RES,CHIP	1K	5% 1/10W				
R243	1-216-073-00	RES,CHIP	10K	5%	1/10W	R244	1-216-036-00	RES,CHIP	300	(KV-T21MN81 ONLY)				
R244	1-216-073-00	RES,CHIP	10K	5%	1/10W	R245	1-216-067-00	RES,CHIP	270	5% 1/10W				
R245	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R246	1-216-067-00	RES,CHIP	270	(KV-T21MN81 ONLY)				
R246	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R247	1-216-053-00	RES,CHIP	1.5K	5% 1/10W				
R247	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R248	1-216-053-00	RES,CHIP	1.5K	5% 1/10W				
R248	1-216-073-00	RES,CHIP	10K	5%	1/10W	R249	1-216-049-91	RES,CHIP	1K	5% 1/10W				
R249	1-216-049-91	RES,CHIP	1K	5%	1/10W	R250	1-216-049-91	RES,CHIP	1K	5% 1/10W				
R250	1-216-049-91	RES,CHIP	1K	5%	1/10W	R251	1-216-295-91	SHORT	0	R343	1-216-035-00	RES,CHIP	270	(KV-T21MN81 ONLY)
R251	1-216-295-91	SHORT	0			R252	1-249-411-11	CARBON	330	5% 1/4W				
R252	1-249-411-11	CARBON	330	5%	1/4W	R253	1-216-073-00	RES,CHIP	10K	5% 1/10W				
R253	1-216-073-00	RES,CHIP	10K	5%	1/10W	R254	1-249-389-11	CARBON	4.7	5% 1/4W				
R254	1-249-389-11	CARBON	4.7	5%	1/4W	R255	1-249-389-11	CARBON	4.7	5% 1/4W				
R255	1-249-389-11	CARBON	4.7	5%	1/4W	R256	1-249-411-11	CARBON	330	5% 1/4W				
R256	1-249-411-11	CARBON	330	5%	1/4W	R264	1-216-061-00	RES,CHIP	3.3K	5% 1/10W				
R264	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R265	1-216-061-00	RES,CHIP	3.3K	5% 1/10W				
R265	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R266	1-216-089-91	RES,CHIP	47K	5% 1/10W				
R266	1-216-089-91	RES,CHIP	47K	5%	1/10W	R302	1-216-295-91	SHORT	0	R302	1-216-295-91	SHORT	0	
R302	1-216-295-91	SHORT	0			R303	1-216-025-91	RES,CHIP	100	5% 1/10W				
R303	1-216-025-91	RES,CHIP	100	5%	1/10W	R409	1-216-025-91	RES,CHIP	100	5% 1/10W				
R304	1-216-025-91	RES,CHIP	100	5%	1/10W	R410	1-216-073-00	RES,CHIP	10K	5% 1/10W				
R305	1-216-025-91	RES,CHIP	100	5%	1/10W	R411	1-216-057-00	RES,CHIP	2.2K	5% 1/10W				
R306	1-216-025-91	RES,CHIP	100	5%	1/10W	R412	1-216-069-00	RES,CHIP	6.8K	5% 1/10W				
R307	1-216-025-91	RES,CHIP	100	5%	1/10W	R413	1-216-057-00	RES,CHIP	2.2K	5% 1/10W				
R308	1-216-033-00	RES,CHIP	220	5%	1/10W	R414	1-216-041-00	RES,CHIP	470	5% 1/10W				
R309	1-216-033-00	RES,CHIP	220	5%	1/10W	R415	1-216-033-00	RES,CHIP	220	5% 1/10W				
R310	1-216-097-91	RES,CHIP	100K	5%	1/10W	R416	1-216-033-00	RES,CHIP	220	5% 1/10W				
R311	1-216-075-00	RES,CHIP	12K	5%	1/10W	R417	1-216-033-00	RES,CHIP	220	5% 1/10W				
R312	1-216-025-91	RES,CHIP	100	5%	1/10W	R418	1-216-045-00	RES,CHIP	680	5% 1/10W				
R313	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R419	1-216-049-91	RES,CHIP	1K	5% 1/10W				
R314	1-216-295-91	SHORT	0			R420	1-216-039-00	RES,CHIP	390	5% 1/10W				
R315	1-216-295-91	SHORT	0			R421	1-216-033-00	RES,CHIP	220	5% 1/10W				
R316	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R422	1-216-027-00	RES,CHIP	120	5% 1/10W				
R317	1-216-049-91	RES,CHIP	1K	5%	1/10W	R423	1-216-029-00	RES,CHIP	150	5% 1/10W				
R318	1-216-099-00	RES,CHIP	120K	5%	1/10W	R424	1-216-057-00	RES,CHIP	2.2K	5% 1/10W				
R319	1-216-123-11	RES,CHIP	1.2M	5%	1/10W	R425	1-216-039-00	RES,CHIP	390	5% 1/10W				
R320	1-216-083-00	RES,CHIP	27K	5%	1/10W	R426	1-216-029-00	RES,CHIP	150	5% 1/10W				
R321	1-216-689-11	METAL CHIP	39K	0.50%	1/10W	R427	1-216-037-00	RES,CHIP	330	5% 1/10W				
R322	1-216-083-00	RES,CHIP	27K	5%	1/10W	R428	1-216-081-00	RES,CHIP	22K	5% 1/10W				
R325	1-216-295-91	SHORT	0			R429	1-216-031-00	RES,CHIP	180	5% 1/10W				
R326	1-216-039-00	RES,CHIP	390	5%	1/10W	R430	1-216-041-00	RES,CHIP	470	5% 1/10W				
R327	1-216-295-91	SHORT	0 (KV-T21MN8)			R431	1-216-081-00	RES,CHIP	22K	5% 1/10W				

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK		REF. NO.	PART NO.	DESCRIPTION	REMARK				
R432	1-216-041-00	RES,CHIP	470	5%	1/10W	R809	1-247-756-11	CARBON	2.2K	5%	1/2W	F
R433	1-216-081-00	RES,CHIP	22K	5%	1/10W	R811	1-216-343-00	METAL OXIDE	0.33	5%	1W	F
R434	1-216-041-00	RES,CHIP	470	5%	1/10W	R812	1-216-075-00	RES,CHIP	12K	5%	1/10W	
R435	1-216-041-00	RES,CHIP	470	5%	1/10W	R816	1-249-435-11	CARBON	33K	5%	1/4W	
R436	1-216-081-00	RES,CHIP	22K	5%	1/10W	R820	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R437	1-216-081-00	RES,CHIP	22K	5%	1/10W	R821	1-215-911-11	METAL OXIDE	100	5%	3W	F
R440	1-216-029-00	RES,CHIP	150	5%	1/10W	R822	1-216-429-00	METAL OXIDE	270	5%	1W	F
R441	1-216-021-00	RES,CHIP	68	5%	1/10W	R823	1-249-931-11	CARBON	2.2K	5%	1/4W	F
R521	1-216-049-91	RES,CHIP	1K	5%	1/10W	R825	1-249-392-11	CARBON	8.2	5%	1/4W	F
R552	1-216-101-00	RES,CHIP	150K	5%	1/10W	R826	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	
R553	1-216-081-00	RES,CHIP	22K	5%	1/10W	R827	1-216-095-00	RES,CHIP	82K	5%	1/10W	
R554	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	R828	1-216-063-91	RES,CHIP	3.9K	5%	1/10W	
R555	1-249-429-11	CARBON	10K	5%	1/4W	R829	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
R556	1-216-049-91	RES,CHIP	1K	5%	1/10W	R831	1-215-863-11	METAL OXIDE	100	5%	1W	F
R557	1-216-055-00	RES,CHIP	1.8K	5%	1/10W	R832	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R560	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	R834	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R561	1-249-421-11	CARBON	2.2K	5%	1/4W	R851	1-249-382-11	CARBON	1.2	5%	1/4W	F
R562	1-249-419-11	CARBON	1.5K	5%	1/4W	R852	1-249-417-11	CARBON	1K	5%	1/4W	F
R563	1-260-126-11	CARBON	180K	5%	1/2W	R853	1-249-377-11	CARBON	0.47	5%	1/4W	F
R564	1-216-091-00	RES,CHIP	56K	5%	1/10W	R854	1-249-377-11	CARBON	0.47	5%	1/4W	F
R565	1-216-091-00	RES,CHIP	56K	5%	1/10W	R855	1-202-818-00	SOLID	1K	20%	1/2W	
R566	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R856	1-249-429-11	CARBON	10K	5%	1/4W	
R569	1-260-354-71	CARBON	150K	5%	1/2W	R857	1-249-438-11	CARBON	56K	5%	1/4W	
R570	1-216-295-91	SHORT	0			R858	1-216-370-11	METAL OXIDE	1.2	5%	2W	F
R571	1-216-033-00	RES,CHIP	220	5%	1/10W	R860	1-247-887-00	CARBON	220K	5%	1/4W	
R601	1-202-961-11	CEMENTED (KV-T21MN8)	1.8	5%	10W	R881	1-216-043-91	RES,CHIP	560	5%	1/10W	
R601	1-202-968-11	CEMENTED (KV-T21MN81)	1.2	5%	10W	R882	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	
R602	1-202-968-11	CEMENTED	1.2	5%	10W	R883	1-216-121-91	RES,CHIP	1M	5%	1/10W	
R606	1-215-915-11	METAL OXIDE	470	5%	3W	R895	1-216-349-00	METAL OXIDE	1	5%	1W	F
R610	1-215-924-00	METAL OXIDE	15K	5%	3W	R898	1-249-421-11	CARBON	2.2K	5%	1/4W	
R611	1-202-933-61	FUSIBLE	0.1	10%	1/2W	R902	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R612	1-219-134-11	FUSIBLE	0.1	10%	1/4W	R904	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R613	1-219-134-11	FUSIBLE	0.1	10%	1/4W	R905	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R614	1-215-877-11	METAL OXIDE	22K	5%	1W	R906	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R615	1-249-389-11	CARBON	4.7	5%	1/4W	R907	1-216-055-00	RES,CHIP	1.8K	5%	1/10W	
R616	\triangle 1-218-265-91	METAL	8.2M	5%	1W	R908	1-216-055-00	RES,CHIP	1.8K	5%	1/10W	
R617	1-215-924-00	METAL OXIDE	15K	5%	3W	R909	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R618	1-219-134-11	FUSIBLE	0.1	10%	1/4W	R910	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R619	1-219-134-11	FUSIBLE	0.1	10%	1/4W	R911	1-216-071-00	RES,CHIP	8.2K	5%	1/10W	
R622	1-217-192-21	WIREWOUND	0.22	10%	2W	R913	1-216-041-00	RES,CHIP	470	5%	1/10W	
R623	1-247-807-31	CARBON	100	5%	1/4W	R914	1-216-041-00	RES,CHIP	470	5%	1/10W	
R624	1-216-446-00	METAL OXIDE	18	5%	2W	R915	1-216-071-00	RES,CHIP	8.2K	5%	1/10W	
R625	1-249-424-11	CARBON	3.9K	5%	1/4W	R1201	1-216-023-00	RES,CHIP	82	5%	1/10W	
R626	1-249-420-11	CARBON	1.8K	5%	1/4W	R1202	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R627	1-249-417-11	CARBON	1K	5%	1/4W	R1203	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R628	1-249-417-11	CARBON	1K	5%	1/4W	R1204	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R629	1-249-399-11	CARBON	33	5%	1/4W	R1205	1-216-023-00	RES,CHIP	82	5%	1/10W	
R632	1-249-381-11	CARBON	1	5%	1/4W	R1206	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R635	1-215-882-00	METAL OXIDE	22	5%	2W	R1207	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R636	1-215-924-00	METAL OXIDE	15K	5%	3W	R1209	1-216-035-00	RES,CHIP	270	5%	1/10W	
R801	1-215-920-11	METAL OXIDE	3.3K	5%	3W	R1211	1-216-021-00	RES,CHIP	68	5%	1/10W	
R802	1-249-385-11	CARBON	2.2	5%	1/4W	R1212	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R803	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R1213	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R804	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1214	1-216-113-00	RES,CHIP	470K	5%	1/10W	
R805	1-216-081-00	RES,CHIP	22K	5%	1/10W	R1215	1-216-113-00	RES,CHIP	470K	5%	1/10W	
						R1216	1-216-113-00	RES,CHIP	470K	5%	1/10W	
						R1218	1-216-041-00	RES,CHIP	470	5%	1/10W	

A

A3

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

A3

REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK									
<CHIP CONDUCTOR>																		
C1234	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	JR1	1-216-295-91	SHORT	0									
C1235	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	JR2	1-216-295-91	SHORT	0									
C1236	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	JR3	1-216-295-91	SHORT	0									
C1237	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	JR4	1-216-295-91	SHORT	0									
C1238	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	JR5	1-216-295-91	SHORT	0									
C1239	1-126-157-11	ELECT	10MF	20%	16V	JR6	1-216-295-91	SHORT	0									
C1240	1-164-222-11	CERAMIC CHIP	0.22MF		25V	JR7	1-216-295-91	SHORT	0									
C1241	1-124-589-11	ELECT	47MF	20%	16V	JR8	1-216-295-91	SHORT	0									
C1242	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V	JR9	1-216-295-91	SHORT	0									
C1243	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	JR10	1-216-295-91	SHORT	0									
C1244	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	JR11	1-216-295-91	SHORT	0									
C1245	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	<COIL>												
C1246	1-163-231-11	CERAMIC CHIP	15PF	5%	50V	L1201	1-408-593-31	INDUCTOR	1.5UH									
C1247	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	L1202	1-412-010-41	INDUCTOR CHIP	22UH									
C1248	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	L1203	1-408-602-31	INDUCTOR	8.2UH									
C1249	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	L1204	1-408-591-11	INDUCTOR	1UH									
C1250	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	L1205	1-408-602-31	INDUCTOR	8.2UH									
C1251	1-216-295-91	SHORT	0			L1206	1-412-951-11	INDUCTOR	10UH									
C1252	1-216-295-91	SHORT	0			L1207	1-412-951-11	INDUCTOR	10UH									
C1253	1-124-234-00	ELECT	22MF	20%	16V	<TRANSISTOR>												
C1254	1-124-234-00	ELECT	100MF	20%	10V	Q1201	8-729-230-49	TRANSISTOR 2SC2712-YG										
C1255	1-124-584-00	ELECT	100MF	20%	10V	Q1203	8-729-266-92	TRANSISTOR 2SC2669-O										
C1256	1-164-005-11	CERAMIC CHIP	0.47MF		25V	Q1206	8-729-216-22	TRANSISTOR 2SA1162-G										
C1257	1-164-222-11	CERAMIC CHIP	0.22MF		25V	Q1207	8-729-230-49	TRANSISTOR 2SC2712-YG										
C1258	1-163-033-91	CERAMIC CHIP	0.022MF		50V	Q1211	8-729-230-49	TRANSISTOR 2SC2712-YG										
C1259	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	Q1212	8-729-230-49	TRANSISTOR 2SC2712-YG										
C1260	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	<CONNECTOR>												
C1261	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	<RESISTOR>												
C1262	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	R1201	1-216-022-00	RES,CHIP	75	5%	1/10W							
C1263	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	R1202	1-216-085-00	RES,CHIP	33K	5%	1/10W							
C1264	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	R1203	1-216-081-00	RES,CHIP	22K	5%	1/10W							
C1265	1-124-234-00	ELECT	22MF	20%	16V	R1204	1-216-035-00	RES,CHIP	270	5%	1/10W							
C1266	1-124-589-11	ELECT	47MF	20%	16V	R1205	1-216-027-00	RES,CHIP	120	5%	1/10W							
C1267	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	R1207	1-216-053-00	RES,CHIP	1.5K	5%	1/10W							
C1268	1-124-584-00	ELECT	100MF	20%	10V	R1210	1-216-041-00	RES,CHIP	470	5%	1/10W							
<DIODE>												R1211	1-216-015-00	RES,CHIP	39	5%	1/10W	
<FERRITE BEAD>												R1212	1-216-097-91	RES,CHIP	100K	5%	1/10W	
<FERRITE>												R1213	1-216-097-91	RES,CHIP	100K	5%	1/10W	
<FERRITE BEAD>												R1214	1-216-033-00	RES,CHIP	220	5%	1/10W	
<FERRITE>												R1217	1-216-073-00	RES,CHIP	10K	5%	1/10W	
<FERRITE BEAD>												R1218	1-216-049-91	RES,CHIP	1K	5%	1/10W	
<FERRITE>												R1219	1-216-047-91	RES,CHIP	820	5%	1/10W	
<FERRITE BEAD>												R1220	1-216-049-91	RES,CHIP	1K	5%	1/10W	
<CONNECTOR>												R1223	1-216-051-00	RES,CHIP	1.2K	5%	1/10W	
<RESISTOR>												R1224	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	
<IC>												R1225	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	
<IC>												R1226	1-216-295-91	SHORT	0			
<IC>												R1227	1-216-295-91	SHORT	0			
<IC>												R1228	1-216-049-91	RES,CHIP	1K	5%	1/10W	
<IC>												R1229	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	
<IC>												R1230	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	
<IC>												R1231	1-216-049-91	RES,CHIP	1K	5%	1/10W	
<IC>												R1232	1-216-027-00	RES,CHIP	120	5%	1/10W	

A3 **C**

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
R1233	1-216-045-00	RES,CHIP	680 5% 1/10W	D702	8-719-911-19	DIODE 1SS119-25					
R1234	1-216-045-00	RES,CHIP	680 5% 1/10W	D703	8-719-911-19	DIODE 1SS119-25					
R1240	1-216-041-00	RES,CHIP	470 5% 1/10W	D707	8-719-911-19	DIODE 1SS119-25					
R1241	1-216-075-00	RES,CHIP	12K 5% 1/10W	D708	8-719-911-19	DIODE 1SS119-25					
R1242	1-216-027-00	RES,CHIP	120 5% 1/10W	D709	8-719-911-19	DIODE 1SS119-25					
R1243	1-216-037-00	RES,CHIP	330 5% 1/10W	D710	8-719-911-19	DIODE 1SS119-25					
R1244	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	D711	8-719-911-19	DIODE 1SS119-25					
R1245	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	D712	8-719-911-19	DIODE 1SS119-25					
R1246	1-260-306-51	CARBON	15 5% 1/2W	D716	8-719-911-19	DIODE 1SS119-25					
<SWITCH>											
SW1201	1-579-560-11	FILTER, SAWTOOTH WAVE		<JACK>							
SW1202	1-579-559-11	FILTER, SAWTOOTH WAVE		J701 \triangle 1-251-239-11 SOCKET, CRT							
<TRANSFORMER>											
T1202	1-416-000-11	COIL		<COIL>							
<CRYSTAL>											
X1201	1-760-094-11	VIBRATOR, CRYSTAL		<TRANSISTOR>							

* A-1331-577-A C BOARD, COMPLETE											

<CAPACITOR>											
C701	1-162-114-00	CERAMIC	0.0047MF	2KV	R702	1-244-941-00	CARBON	680K 5% 1/2W			
C702	1-102-074-00	CERAMIC	0.001MF	10% 50V	R703	1-249-496-11	CARBON	100K 5% 1/2W			
C703	1-107-651-11	ELECT	4.7MF	20% 250V	R705	1-216-393-00	METAL OXIDE	2.2 5% 3W F			
C704	1-130-202-00	FILM	0.022MF	5% 400V	R710	1-215-922-11	METAL OXIDE	6.8K 5% 3W F			
C708	1-102-114-00	CERAMIC	470PF	10% 50V	R711	1-247-763-11	CARBON	8.2K 5% 1/2W			
C709	1-102-114-00	CERAMIC	470PF	10% 50V	R712	1-215-922-11	METAL OXIDE	6.8K 5% 3W F			
C710	1-102-114-00	CERAMIC	470PF	10% 50V	R713	1-247-763-11	CARBON	8.2K 5% 1/2W			
C712	1-102-115-00	CERAMIC	560PF	10% 50V	R714	1-215-922-11	METAL OXIDE	6.8K 5% 3W F			
C713	1-102-115-00	CERAMIC	560PF	10% 50V	R715	1-247-763-11	CARBON	8.2K 5% 1/2W			
C714	1-102-115-00	CERAMIC	560PF	10% 50V	R719	1-215-480-00	METAL	300K 1% 1/4W			
C716	1-124-122-11	ELECT	100MF	20% 50V	R720	1-249-923-11	CARBON	1K 5% 1/4W F			
C736	1-102-114-00	CERAMIC	470PF	10% 50V	R721	1-215-489-00	METAL	680K 1% 1/4W			
C737	1-102-114-00	CERAMIC	470PF	10% 50V	R722	1-249-923-11	CARBON	1K 5% 1/4W F			
C746	1-102-114-00	CERAMIC	470PF	10% 50V	R723	1-215-479-00	METAL	270K 1% 1/4W			
					R724	1-249-923-11	CARBON	1K 5% 1/4W F			
<CONNECTOR>											
CN701	* 1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		R725	1-249-419-11	CARBON	1.5K 5% 1/4W				
CN703	* 1-564-509-11	PLUG, CONNECTOR 6P		R726	1-249-419-11	CARBON	1.5K 5% 1/4W				
CN704	1-695-915-11	TAB (CONTACT)		R727	1-249-419-11	CARBON	1.5K 5% 1/4W				
				R728	1-249-407-11	CARBON	150 5% 1/4W				
				R729	1-249-408-11	CARBON	180 5% 1/4W				
<DIODE>											
D701	8-719-911-19	DIODE 1SS119-25		R730	1-249-408-11	CARBON	180 5% 1/4W				
				R731	1-247-807-31	CARBON	100 5% 1/4W				
				R732	1-247-807-31	CARBON	100 5% 1/4W				
				R733	1-247-807-31	CARBON	100 5% 1/4W				
				R734	1-247-739-11	CARBON	100 5% 1/2W				

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

C

F1 (KV-T21MN81)

V1 (KV-T21MN81)

REF. NO.	PART NO.	DESCRIPTION		REMARK		REF. NO.	PART NO.	DESCRIPTION		REMARK	
R738	1-247-807-31	CARBON	100	5%	1/4W	C04	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
R739	1-247-807-31	CARBON	100	5%	1/4W	C05	1-124-907-11	ELECT	10MF	20%	50V
R740	1-247-807-31	CARBON	100	5%	1/4W	C06	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
R755	1-249-418-11	CARBON	1.2K	5%	1/4W	C07	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
R756	1-249-418-11	CARBON	1.2K	5%	1/4W	C08	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
R757	1-249-418-11	CARBON	1.2K	5%	1/4W	C09	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
		<VARIABLE RESISTOR>				C10	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M				C11	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
						C12	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
						C13	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
						C14	1-216-295-91	SHORT	0		
						C15	1-126-966-11	ELECT	33MF	20%	35V
						C16	1-126-963-11	ELECT	4.7MF	20%	50V
						C17	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
						C19	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
						C20	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
						C22	1-126-964-51	ELECT	10MF	20%	50V
						C23	1-163-038-91	CERAMIC CHIP	0.1MF		25V
						C24	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
						C25	1-126-964-51	ELECT	10MF	20%	50V
						C26	1-104-665-11	ELECT	100MF	20%	10V
						C27	1-104-665-11	ELECT	100MF	20%	16V
C1601	1-104-705-51	FILM	0.1MF	20%	250V	C28	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
		<CONNECTOR>				C29	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
CN1601*	1-580-843-11	PIN, CONNECTOR (POWER)				C30	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
CN1602*	1-580-843-11	PIN, CONNECTOR (POWER)				C31	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
						C32	1-104-665-11	ELECT	100MF	20%	10V
		<CONNECTOR>						<CONNECTOR>			
		<FUSE>				CN01	*	1-770-748-11	CONNECTOR, BOARD TO BOARD 12P		
								<DIODE>			
		<RESISTOR>				D03	8-719-914-43	DIODE DAN202K			
R1601	△ 1-202-916-91	SOLID	5.6M	20%	1/2W	D04	8-719-105-91	DIODE RD5.6M-B2			
		<TRANSFORMER>				D05	8-719-914-44	DIODE DAP202K			
						D06	8-719-914-43	DIODE DAN202K			
						D001	8-719-105-52	DIODE RD3.6M-B2			
		<TRANSFORMER>						<FERRITE BEAD>			
T1601	△ 1-424-391-11	TRANSFORMER, LINE FILTER				FB01	1-410-397-21	FERRITE		1.1UH	
T1602	△ 1-424-391-11	TRANSFORMER, LINE FILTER						<IC>			
						IC01	8-759-324-28	IC P83C654FBP/540			
						IC02	8-759-298-63	IC SAA5281ZP/E			
		<CHIP CONDUCTOR>						<CHIP CONDUCTOR>			
4-049-406-01	CASE (BOTTOM LID), SHIELD					JR02	1-216-295-91	SHORT	0		
4-049-407-01	CASE (UPPER LID), SHIELD					JR03	1-216-295-91	SHORT	0		
	<CAPACITOR>					JR04	1-216-295-91	SHORT	0		
C01	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	JR07	1-216-295-91	SHORT	0		
C02	1-124-907-11	ELECT	10MF	20%	50V	JR08	1-216-295-91	SHORT	0		
C03	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	JR09	1-216-295-91	SHORT	0		

V1 (KV-T21MN81)

VM

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<COIL>		R43	1-216-295-91	SHORT	0
				R44	1-216-083-00	RES,CHIP	27K 5% 1/10W
L01	1-410-464-11	INDUCTOR	3.3UH	R45	1-216-021-00	RES,CHIP	68 5% 1/10W
L03	1-410-464-11	INDUCTOR	3.3UH	R46	1-216-021-00	RES,CHIP	68 5% 1/10W
L04	1-410-464-11	INDUCTOR	3.3UH	R47	1-216-021-00	RES,CHIP	68 5% 1/10W
L05	1-410-464-11	INDUCTOR	3.3UH	R48	1-216-049-91	RES,CHIP	1K 5% 1/10W
L06	1-410-464-11	INDUCTOR	3.3UH	R49	1-216-049-91	RES,CHIP	1K 5% 1/10W
		<TRANSISTOR>		R50	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q01	8-729-120-28	TRANSISTOR 2SC1623-L5L6				<CRYSTAL>	
Q02	8-729-027-43	TRANSISTOR DTC114EKA-T146					
Q03	8-729-120-28	TRANSISTOR 2SC1623-L5L6		X01	1-579-266-31	CRYSTAL VIBRATOR	
Q04	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q05	8-729-216-22	TRANSISTOR 2SA1162-G					
Q06	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q07	8-729-019-01	TRANSISTOR 2SD2394-EF					
Q08	8-729-140-96	TRANSISTOR 2SD774-34					
Q09	8-729-901-04	TRANSISTOR DTA114EK					
		<RESISTOR>					
R01	1-216-061-00	RES,CHIP	3.3K 5% 1/10W		4-382-854-11	SCREW (M3X10), P, SW (+)	
R02	1-216-057-00	RES,CHIP	2.2K 5% 1/10W				
R03	1-216-085-00	RES,CHIP	33K 5% 1/10W				
R04	1-216-025-91	RES,CHIP	100 5% 1/10W				
R05	1-216-057-00	RES,CHIP	2.2K 5% 1/10W				
						<CAPACITOR>	
R06	1-216-075-00	RES,CHIP	12K 5% 1/10W	C1722	1-102-115-00	CERAMIC	560PF 10% 50V
R07	1-216-025-91	RES,CHIP	100 5% 1/10W	C1724	1-102-961-00	CERAMIC	27PF 5% 50V
R08	1-216-025-91	RES,CHIP	100 5% 1/10W	C1751	1-136-153-00	FILM	0.01MF 5% 50V
R09	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	C1761	1-161-830-00	CERAMIC	0.0047MF 500V
R10	1-216-083-00	RES,CHIP	27K 5% 1/10W	C1763	1-107-638-11	ELECT	33MF 20% 160V
				C1764	1-126-933-11	ELECT	100MF 20% 16V
R11	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	C1768	1-106-383-00	MYLAR	0.047MF 10% 200V
R12	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	C1769	1-107-667-11	ELECT	2.2MF 20% 160V
R13	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	C1770	1-104-999-11	MYLAR	0.1MF 10% 200V
R14	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	C1771	1-126-964-11	ELECT	10MF 20% 50V
R16	1-216-073-00	RES,CHIP	10K 5% 1/10W				
				C1772	1-126-933-11	ELECT	100MF 20% 16V
R17	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	C1773	1-106-383-00	MYLAR	0.047MF 10% 200V
R18	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	C1775	1-126-933-11	ELECT	100MF 20% 16V
R19	1-216-049-91	RES,CHIP	1K 5% 1/10W	C1776	1-126-964-11	ELECT	10MF 20% 50V
R20	1-216-049-91	RES,CHIP	1K 5% 1/10W	C1778	1-130-471-00	MYLAR	0.001MF 5% 50V
R21	1-216-065-91	RES,CHIP	4.7K 5% 1/10W				
				C1779	1-130-471-00	MYLAR	0.001MF 5% 50V
R22	1-216-041-00	RES,CHIP	470 5% 1/10W	C1780	1-126-964-11	ELECT	10MF 20% 50V
R24	1-216-025-91	RES,CHIP	100 5% 1/10W				
R25	1-216-025-91	RES,CHIP	100 5% 1/10W				
R26	1-216-049-91	RES,CHIP	1K 5% 1/10W				
R27	1-216-071-00	RES,CHIP	8.2K 5% 1/10W				
						<CONNECTOR>	
R28	1-216-025-91	RES,CHIP	100 5% 1/10W				
R29	1-216-025-91	RES,CHIP	100 5% 1/10W				
R30	1-216-071-00	RES,CHIP	8.2K 5% 1/10W				
R31	1-216-025-91	RES,CHIP	100 5% 1/10W				
R32	1-216-071-00	RES,CHIP	8.2K 5% 1/10W				
						<DIODE>	
R33	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	D1761	8-719-911-19	DIODE 1SS119-25	
R34	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	D1763	8-719-911-19	DIODE 1SS119-25	
R35	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	D1764	8-719-911-19	DIODE 1SS119-25	
R36	1-216-025-91	RES,CHIP	100 5% 1/10W	D1767	8-719-110-88	DIODE RD39ESB2	
R37	1-216-049-91	RES,CHIP	1K 5% 1/10W	D1768	8-719-110-88	DIODE RD39ESB2	
						<COIL>	
R38	1-260-095-11	CARBON	470 5% 1/2W				
R41	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	L1721	1-414-191-11	INDUCTOR	150UH
R42	1-216-077-00	RES,CHIP	15K 5% 1/10W	L1722	1-408-621-31	INDUCTOR	330UH
				L1723	1-414-182-11	INDUCTOR	6.8UH

The components identified by shading and mark \triangle are critical for safety.
Replace only with part number specified.

VM

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
L1761	1-410-478-11	INDUCTOR	47UH			MISCELLANEOUS					
L1762	1-408-610-31	INDUCTOR	39UH			*****					
<TRANSISTOR>											
Q1722	8-729-119-78	TRANSISTOR 2SC2785-HFE		\triangle 1-409-942-11		COIL, DEMAGNETIZATION					
Q1723	8-729-119-78	TRANSISTOR 2SC2785-HFE		1-452-032-00		MAGNET,DISC					
Q1756	8-729-119-78	TRANSISTOR 2SC2785-HFE		1-452-277-00		MAGNET, BMC					
Q1761	8-729-119-78	TRANSISTOR 2SC2785-HFE		1-452-509-51		NECK ASSY, CRT (NA308)					
Q1762	8-729-119-76	TRANSISTOR 2SA1175-HFE		1-504-305-11		SPEAKER (12X5CM)					
Q1763	8-729-017-05	TRANSISTOR 2SA1837		<RESISTOR>							
Q1764	8-729-119-78	TRANSISTOR 2SC2785-HFE		\triangle 1-569-008-11		ADAPTOR, CONVERSION 2P (KV-T21MN81 ONLY)					
Q1765	8-729-017-06	TRANSISTOR 2SC4793		\triangle 1-769-609-21		CORD, POWER (WITH CONNECTOR) (KV-T21MN8)					
Q1766	8-729-119-78	TRANSISTOR 2SC2785-HFE		\triangle 1-574-062-61		CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-T21MN81)					
Q1767	8-729-142-86	TRANSISTOR 2SC3733		\triangle 1-900-700-05		LEAD ASSY, FOCUS					
Q1777	8-729-326-11	TRANSISTOR 2SC2611		8-451-280-33		DY (Y21PXA2) (KV-T21MN8)					

R1721	1-249-414-11	CARBON	560	5%	1/4W	*****					
R1722	1-249-412-11	CARBON	390	5%	1/4W	*****					
R1723	1-249-407-11	CARBON	150	5%	1/4W	ACCESSORIES AND PACKING MATERIALS					
R1724	1-249-407-11	CARBON	150	5%	1/4W	*****					
R1725	1-249-412-11	CARBON	390	5%	1/4W	*****					
R1727	1-247-843-11	CARBON	3.3K	5%	1/4W	\triangle 1-569-008-11	ADAPTOR, CONVERSION 2P (KV-T21MN81 ONLY)				
R1728	1-249-429-11	CARBON	10K	5%	1/4W	3-701-910-01	SCREW, SPECIAL (DIA. 3.8X20)				
R1732	1-126-964-11	ELECT	10MF	20%	50V	3-862-944-11	MANUAL, INSTRUCTION				
R1736	1-249-419-11	CARBON	1.5K	5%	1/4W	* 4-065-446-01	INDIVIDUAL CARTON				
R1753	1-247-843-11	CARBON	3.3K	5%	1/4W	* 4-065-447-01	CUSHION (UPPER) (ASSY)				
R1762	1-247-815-91	CARBON	220	5%	1/4W	* 4-065-448-01	CUSHION (LOWER) (ASSY)				
R1764	1-247-734-11	CARBON	39	5%	1/2W F	* 4-055-210-11	BAG, PROTECTION				
R1765	1-249-414-11	CARBON	560	5%	1/4W F	4-392-003-41	BAND, HOLD				
R1766	1-249-418-11	CARBON	1.2K	5%	1/4W	4-392-004-31	CLIP				
R1768	1-249-421-11	CARBON	2.2K	5%	1/4W	*****					
R1769	1-249-384-11	CARBON	1.8	5%	1/4W F	*****					
R1770	1-249-435-11	CARBON	33K	5%	1/4W	*****					
R1772	1-249-432-11	CARBON	18K	5%	1/4W	*****					
R1774	1-215-912-11	METAL OXIDE	150	5%	3W F	*****					
R1775	1-249-417-11	CARBON	1K	5%	1/4W F	*****					
R1776	1-249-432-11	CARBON	18K	5%	1/4W	*****					
R1777	1-249-438-11	CARBON	56K	5%	1/4W	*****					
R1778	1-249-430-11	CARBON	12K	5%	1/4W	1-473-323-11	REMOTE COMMANDER (RM-870)				
R1779	1-249-414-11	CARBON	560	5%	1/4W	*****					
R1780	1-249-418-11	CARBON	1.2K	5%	1/4W	*****					
R1781	1-249-410-11	CARBON	270	5%	1/4W	*****					
R1782	1-249-384-11	CARBON	1.8	5%	1/4W F	*****					
R1784	1-247-807-31	CARBON	100	5%	1/4W	*****					
R1785	1-249-400-11	CARBON	39	5%	1/4W F	*****					
R1786	1-249-435-11	CARBON	33K	5%	1/4W	*****					
R1787	1-249-428-11	CARBON	8.2K	5%	1/4W	*****					
R1788	1-249-419-11	CARBON	1.5K	5%	1/4W	*****					
R1789	1-249-413-11	CARBON	470	5%	1/4W	*****					
R1790	1-216-451-11	METAL OXIDE	120	5%	2W F	*****					
R1791	1-249-411-11	CARBON	330	5%	1/4W	*****					
R1812	1-249-425-11	CARBON	4.7K	5%	1/4W	*****					
R1851	1-249-393-11	CARBON	10	5%	1/4W	*****					

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